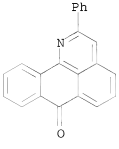
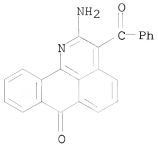
=> d ibib abs hitstr 1-99
THE ESTIMATED COST FOR THIS REQUEST IS 558.36 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

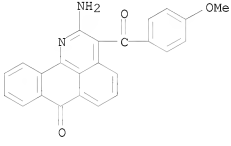
L6 ANSWER 1 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2009:823207 CAPLUS
DOCUMENT NUMBER: 151:221355
TITLE: An Unexpected Rearrangement That Disassembles Alkyne Moiety Through Formal Nitrogen Atom Insertion between Two Acetylenic Carbons and Related Cascade Transformations: New Approach to Sampangine Derivatives and Polycyclic Aromatic Amides
AUTHOR(S): Vasilevsky, Sergei F.; Baranov, Denis S.; Mamatyuk, Victor I.; Gatilov, Yury V.; Alabugin, Igor V.
CORPORATE SOURCE: Institute of Chemical Kinetics and Combustion, Siberian Branch of the Russian Academy of Science, Novosibirsk, 630090, Russia
SOURCE: Journal of Organic Chemistry (2009), 74(16), 6143-6150 CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB This work analyzes multiple new reaction pathways which originate from intramol. reactions of activated alkynes with the appropriately positioned multifunctional hemiaminal moiety. A combination of exptl. substituent effects with Natural Bond Orbital (NBO) anal. revealed that alkyne polarization controls partitioning between these cascades. A particularly remarkable transformation leads to the formation of six new bonds at the two alkyne carbons due to complete disassembly of the alkyne moiety and formal insertion of a nitrogen atom between the two acetylenic carbons of the reactant. This reaction offers a new synthetic approach for the preparation of polycyclic aromatic amides with a number of possible applications in mol. electronics. Another of the newly discovered cascades opens access to substituted analogs of Sampangine alkaloids which are known for their antifungal and antimycobacterial activity against AIDS-related opportunistic infection pathogens.
IT 155269-10-6P 1175017-81-8P 1175017-84-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(cyclization of guanidine with alkynes to give rearrangement and insertion polycyclic products and study of substituent effects by Natural Bond Orbital anal.)
RN 155269-10-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-phenyl- (CA INDEX NAME)



RN 1175017-81-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 1175017-84-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



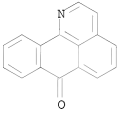
REFERENCE COUNT: 68 THERE ARE 68 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2009:691954 CAPLUS
DOCUMENT NUMBER: 151:56421
TITLE: Photoreduction of Oxoisoaporphines by Amines: Laser Flash and Steady-State Photolysis, Pulse Radiolysis, and TD-DFT Studies
AUTHOR(S): De la Fuente, Julio R.; Aliaga, Christian; Poblete, Cristian; Zapata, Gerald; Jullian, Carolina; Saitz, Claudio; Canete, Alvaro; Kciuk, Gabriel; Sobarzo-Sanchez, Eduardo; Bobrowski, Krzysztof
CORPORATE SOURCE: Departamento de Quimica Organica y Fisicoquimica, Facultad de Ciencias Quimicas y Farmaceuticas, Universidad de Chile, Santiago, 223, Chile
SOURCE: Journal of Physical Chemistry A (2009), 113(27), 7737-7747
CODEN: JPCAFH; ISSN: 1089-5639
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Photoredn. of oxoisoaporphine (OIA) (1-aza-benzo-[de]anthracen-7-one) and its 5-methoxy (5-MeO-OIA) derivative by selected amines (two non-α-hydrogen-donating amines (1,4-diaza[2.2.2]-bicyclooctane (DABCO) and 2,2,6,6-tetramethylpiperidine (TMP)) and three α-hydrogen-donating amines (triethylamine (TEA), diethylmethylamine (DEMA), and dimethylethylamine (DMEA))) has been studied in deaerated neat acetonitrile solns. using laser flash and steady-state photolysis. The triplet excited states of OIA and 5-MeO-OIA are characterized by intense

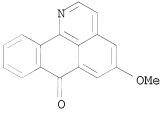
absorption maxima located at λmax = 450 nm and lifetimes of 34.7 ± 0.5 and 44.6 ± 0.4 μs, resp. In the presence of tertiary amines, both triplets are quenched with a rate constant that varies from the near diffusion limit (>109 M-1 s-1) to a rather low value (.apprx.107 M-1 s-1) and shows the expected dependence on the reduction potential for one-electron-transfer reactions. The transient absorption spectra observed after quenching of the resp. triplet states are characterized by distinct absorption maxima located at λmax = 480 and 490 nm (for OIA and 5-MeO-OIA, resp.) and accompanied by broad shoulders in the range of 510-560 nm. They were assigned to either solvent-separated radical ion pairs and/or isolated radical anions. In the presence of α-hydrogen-donating amines these species undergo protonation that leads to the formation of neutral hydrogenated radicals A1H•/A2H• with two possible sites of protonation, N and O atoms. Pulse radiolysis and mol. modeling together with TD-DFT calcns. were used to support the conclusions about the origin of transients.

IT 1160643-00-4 1160643-01-5
RL: FMU (Formation, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); FORM (Formation, nonpreparative); PROC (Process); RACT (Reactant or reagent)
(photoredn. of oxoisoaporphines by amines: laser flash and steady-state photolysis, pulse radiolysis, and TD-DFT Studies)

RN 1160643-00-4 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, radical ion(1-) (CA INDEX NAME)

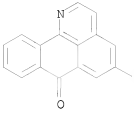


RN 1160643-01-5 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5-methoxy-, radical ion(1-) (CA INDEX NAME)

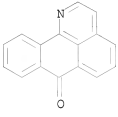


IT 28399-74-8 65543-67-1,
7H-Dibenzo[de,h]quinolin-7-one
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
(photoredn. of oxoisoaporphines by amines: laser flash and steady-state photolysis, pulse radiolysis, and TD-DFT Studies)

RN 28399-74-8 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5-methoxy- (CA INDEX NAME)



RN 65543-67-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

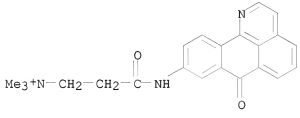
L6 ANSWER 3 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2009:478082 CAPLUS
DOCUMENT NUMBER: 151:57020
TITLE: Synthesis, biological evaluation and molecular modeling of oxoisoaporphine and oxoaporphine derivatives as new dual inhibitors of acetylcholinesterase/butyrylcholinesterase
AUTHOR(S): Tang, Huang; Wei, Yong-Biao; Zhang, Chi; Ning, Fang-Xian; Qiao, Wei; Huang, Shi-Liang; Ma, Lin; Huang, Zhi-Shu; Gu, Lian-Quan
CORPORATE SOURCE: School of Pharmaceutical Sciences, Sun Yat-sen University, Guangzhou, 510006, Peop. Rep. China
SOURCE: European Journal of Medicinal Chemistry (2009), 44(6), 2523-2532
CODEN: EJMCA5; ISSN: 0223-5234
PUBLISHER: Elsevier Masson SAS
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 151:57020

AB Aporphine alkaloids, isolated from Chinese medicinal herb, are important natural products. We recently reported that synthetic derivs. of oxoisoaporphine alkaloids exhibited high acetylcholinesterase inhibitory activity and high selectivity for AChE over BuChE. In this paper, further research results were presented. A series of novel derivs. of oxoaporphine alkaloids (4-carboxylic amide-7-oxo-7H-dibenzo[de,g]quinoline, Ar-CONH(CH2)nNR) and their quaternary methiodide salts (Ar-CONH(CH2)nN+(CH3)RI-) were designed and synthesized as acetylcholinesterase (AChE) and/or butyrylcholinesterase (BuChE) inhibitors. The AChE inhibition potency of synthetic oxoaporphine derivs. was decreased about 2-3 orders of magnitude as compared with that of oxoisoaporphine derivs. Non-competitive binding mode was found for both kinds of derivs. Mol. docking simulations on the oxoisoaporphine

derivs. series and oxoaporphine derivs. series with AChE from Torpedo californica have demonstrated that the ligands bound to the dual-site of the enzyme.

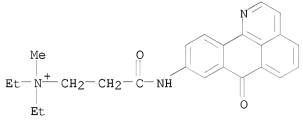
IT 946433-71-2 946433-73-4
RL: PAC (Pharmacological activity); PRP (Properties); BIOL (Biological study)
(synthesis, biol. evaluation and mol. modeling of oxoisoaporphine and oxoaporphine derivs. as inhibitors of acetylcholinesterase/butyrylcholinesterase)

RN 946433-71-2 CAPLUS
CN 1-Propanaminium, N,N,N-trimethyl-3-oxo-3-[(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)amino]-, iodide (1:1) (CA INDEX NAME)



● I⁻

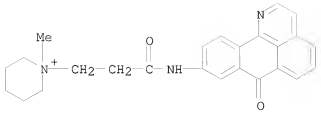
RN 946433-73-4 CAPLUS
CN 1-Propanaminium, N,N-diethyl-N-methyl-3-oxo-3-[(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)amino]-, iodide (1:1) (CA INDEX NAME)



● I⁻

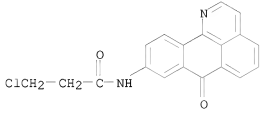
IT 949014-03-3P
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis, biol. evaluation and mol. modeling of oxoisoaporphine and oxoaporphine derivs. as inhibitors of acetylcholinesterase/butyrylcholinesterase)

RN 949014-03-3 CAPLUS
CN Piperidinium, 1-methyl-1-[3-oxo-3-[(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)amino]propyl]-, iodide (1:1) (CA INDEX NAME)

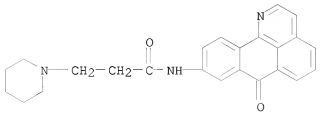


● I⁻

IT 946433-74-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis, biol. evaluation and mol. modeling of oxoisoaporphine and oxoaporphine derivs. as inhibitors of acetylcholinesterase/butyrylcholinesterase)
RN 946433-74-5 CAPLUS
CN Propanamide, 3-chloro-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



IT 949014-02-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis, biol. evaluation and mol. modeling of oxoisoaporphine and oxoaporphine derivs. as inhibitors of acetylcholinesterase/butyrylcholinesterase)
RN 949014-02-2 CAPLUS
CN 1-Piperidinepropanamide, N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



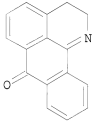
REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2009:333709 CAPLUS
DOCUMENT NUMBER: 150:322734
TITLE: Use of oxoisoaporphines and the derivatives thereof as selective inhibitors of monoamino oxidase A
INVENTOR(S): Sobarzo-Sanchez, Eduardo; Yanez Jato, Matilde; Orallo Cambeiro, Francisco; Uriarte Villares, Eugenio; Cano Rubio, Ernesto
PATENT ASSIGNEE(S): Universidade de Santiago de Compostela, Spain
SOURCE: PCT Int. Appl., 50pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Spanish
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2009034216	A1	20090319	WO 2008-ES70114	20080612
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
ES 2315203	A1	20090316	ES 2007-2519	20070911
PRIORITY APPLN. INFO.:			ES 2007-2519 A	20070911
OTHER SOURCE(S): MARPAT 150:322734				

GI

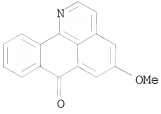


I

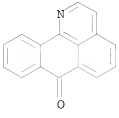
AB The invention relates to the use of compds. of general formula (I) etc. (with substituents defined in claims) as selective inhibitors of monoamino oxidase, especially inhibitors of MAO-A, for preparing a medicament for the treatment of depression disorders.

IT 28399-74-8 65543-67-1, 7H-Dibenzo[de,h]quinolin-7-one 631914-67-5 874990-03-1
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(oxoisoaporphines and derivs. as selective inhibitors of monoamino

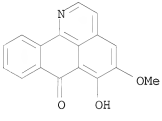
oxidase A)
RN 28399-74-8 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5-methoxy- (CA INDEX NAME)



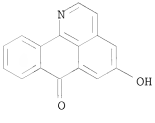
RN 65543-67-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



RN 631914-67-5 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-hydroxy-5-methoxy- (CA INDEX NAME)



RN 874990-03-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5-hydroxy- (CA INDEX NAME)

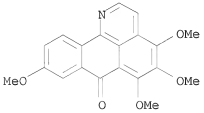


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2009:110695 CAPLUS
DOCUMENT NUMBER: 151:24810
TITLE: Induction of novel metabolites by P-450 inhibitors in cultured roots of Stephania cepharantha and Menispermum dauricum
AUTHOR(S): Sugimoto, Yukihiro
CORPORATE SOURCE: Graduate School of Agricultural Science, Kobe University, Rokkodai, Nada, Kobe, 657501, Japan
SOURCE: Recent Progress in Medicinal Plants (2009), Volume 24, 155-169. Editor(s): Singh, V. K. Studium Press, LLC: Houston, Tex.
CODEN: 69KLGO; ISBN: 0-9656038-5-7
DOCUMENT TYPE: Conference
LANGUAGE: English

AB The effect of cytochrome P 450 inhibitors on biosynthesis of benzylisoquinoline alkaloids, in cultured roots of Stephania cepharantha Hayata and Menispermum dauricum DC, was studied. In S. cepharantha most inhibitors reduced root growth and biosynthesis of the major alkaloids aromoline and berbamine. Alkaloid contents were pos. correlated with root growth (r = 0.82 and 0.78 for aromoline and berbamine, resp.). In M. dauricum ancymidol and metyrapone promoted root growth, ketoconazole was inhibitory, while other inhibitors had inconsistent effects. Production of the major alkaloids dauricine and acutumine was curtailed by all inhibitors. Alkaloid contents were not related to root growth. None of the inhibitors induced accumulation of the immediate precursors of bisbenzylisoquinoline. However, ketoconazole-treated M. dauricum roots accumulated tyramine, an early precursor of benzylisoquinoline and three alkaloids with mol. masses of 353, 456 and 351. These alkaloids were identified as novel oxoisoaporphines, 2,3-dihydrodauriporphine and tyraminoporphine and the known alkaloid dauriporphine, resp., by spectroscopic and chemical methods.

IT 88142-60-3, Dauriporphine
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(cytochrome P 450 inhibitor ketoconazole induced accumulation of dauriporphine in cultured root of Menispermum dauricum)
RN 88142-60-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 4,5,6,9-tetramethoxy- (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

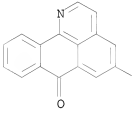
L6 ANSWER 6 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2008:1098723 CAPLUS
DOCUMENT NUMBER: 149:355351
TITLE: The behavior of M+ and [M+H]+ ions of some oxoisoaporphines and quinolinone analogs
AUTHOR(S): Valitutti, Giovanni; Sobarzo-Sanchez, Eduardo; Traldi, Pietro

CORPORATE SOURCE: CNR-ISTM, Corso Stati Uniti, Padua, I35127, Italy
SOURCE: Heterocycles (2008), 75(9), 2213-2223
CODEN: HTCYAM; ISSN: 0385-5414
PUBLISHER: Japan Institute of Heterocyclic Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English

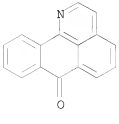
AB The mass spectrometric behavior of some oxoisoaporphines and quinolinone analogs has been studied by both electrospray and electron ionization methods. By the former approach, information can be obtained on the decomposition pattern of the compds. under investigation in acidic condition, while by the latter the behavior related to both cationic and radical character of mol. ion can be put in evidence. The collisional spectra of the protonated mols. indicate that protonation has taken place on both oxygen and nitrogen atoms. This can be justified by the fact that even if the most basic site present in the mol. is surely the N atom, in mass spectrometry conditions the protonation reactions are not governed by thermodn. only, but kinetic effects can also play a fundamental role. Some exception to the even electron rule have been evidenced, and can be well justified by the high stability of the odd electron fragment ion. In electron ionization conditions fragmentation patterns well related to the original structures are present, allowing the characterization of isomeric compds. by the presence of specific fragmentation routes.

IT 28399-74-8 65543-67-1,
7H-Dibenzo[de,h]quinolin-7-one 631914-67-5
874990-03-1
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
(behavior of M+ and [M+H]+ ions of some oxoisoaporphine and quinolinone analogs under electrospray and electron ionization mass-spectroscopic conditions)

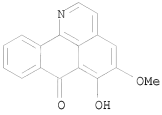
RN 28399-74-8 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5-methoxy- (CA INDEX NAME)



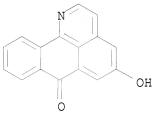
RN 65543-67-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



RN 631914-67-5 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-hydroxy-5-methoxy- (CA INDEX NAME)

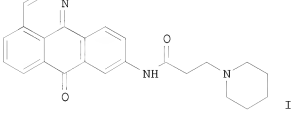


RN 874990-03-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5-hydroxy- (CA INDEX NAME)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2008:576592 CAPLUS
DOCUMENT NUMBER: 149:153237
TITLE: Oxoisoaporphine alkaloid derivatives: Synthesis, DNA binding affinity and cytotoxicity
AUTHOR(S): Tang, Huang; Wang, Xiao-Dong; Wei, Yong-Biao; Huang, Shi-Liang; Huang, Zhi-Shu; Tan, Jia-Heng; An, Lin-Kun; Wu, Jian-Yong; Sun-Chi Chan, Albert; Gu, Lian-Quan
CORPORATE SOURCE: School of Chemistry and Chemical Engineering, Sun Yat-sen University, Guangzhou, 510275, Peop. Rep. China
SOURCE: European Journal of Medicinal Chemistry (2008), 43(5), 973-980
CODEN: EJMCA5; ISSN: 0223-5234
PUBLISHER: Elsevier Masson SAS
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 149:153237
GI

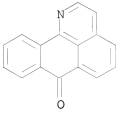


I

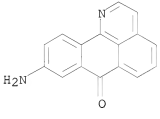
AB A series of novel oxoisoaporphine alkaloid derivs., 9-aminoalkanamido-1-azabenzanthrone (general formula Ar-NHCO(CH2)nNR2, Ar = 1-azabenzanthrone, n = 1, 2 or 3), had been synthesized. Compared with 1-azabenzanthrone, the derivs. had significantly higher DNA binding affinity with calf thymus DNA, and higher potent cytotoxicity against different tumor cell lines. The cytotoxicity and the structure-activity relationship of the prepared compds. were studied. The derivs. with two methylene groups (n = 2), and piperidine or ethanolamine functional group in the side chain, e.g. I, exhibited highest DNA binding affinity and cytotoxicity.

IT 65543-67-1P, 7H-Dibenzo[de,h]quinolin-7-one
131023-54-6P
RL: PAC (Pharmacological activity); PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(synthesis, DNA binding affinity and antitumor activity of oxoisoaporphine alkaloid derivs.)

RN 65543-67-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)

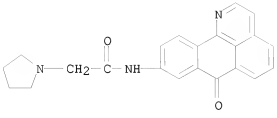


RN 131023-54-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 9-amino- (CA INDEX NAME)

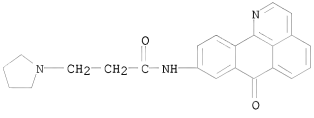


IT 946433-66-5P 946433-76-7P 946433-77-8P
946433-78-9P 946433-79-0P 946433-80-3P
946433-81-4P 946433-82-5P 946433-83-6P
949014-02-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis, DNA binding affinity and antitumor activity of oxoisoaporphine alkaloid derivs.)

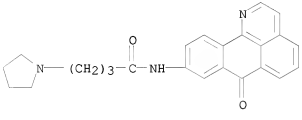
RN 946433-66-5 CAPLUS
CN 1-Pyrrolidineacetamide, N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



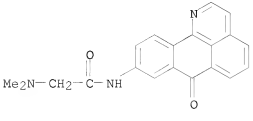
RN 946433-76-7 CAPLUS
CN 1-Pyrrolidinepropanamide, N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



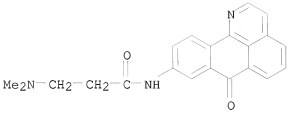
RN 946433-77-8 CAPLUS
CN 1-Pyrrolidinebutanamide, N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



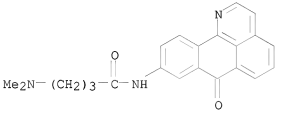
RN 946433-78-9 CAPLUS
CN Acetamide, 2-(dimethylamino)-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



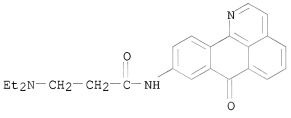
RN 946433-79-0 CAPLUS
CN Propanamide, 3-(dimethylamino)-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



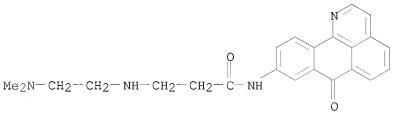
RN 946433-80-3 CAPLUS
CN Butanamide, 4-(dimethylamino)-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)-
(CA INDEX NAME)



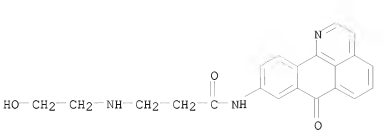
RN 946433-81-4 CAPLUS
CN Propanamide, 3-(diethylamino)-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)-
(CA INDEX NAME)



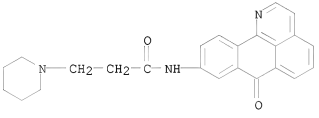
RN 946433-82-5 CAPLUS
CN Propanamide, 3-[[2-(dimethylamino)ethyl]amino]-N-(7-oxo-7H-
dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



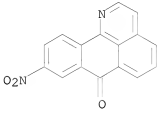
RN 946433-83-6 CAPLUS
CN Propanamide, 3-[(2-hydroxyethyl)amino]-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-
yl)- (CA INDEX NAME)



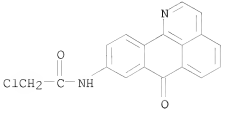
RN 949014-02-2 CAPLUS
CN 1-Piperidinepropanamide, N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



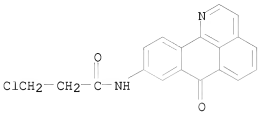
IT 131023-51-3P 946433-65-4P 946433-74-5P
946433-75-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis, DNA binding affinity and antitumor activity of oxoisoaporphine alkaloid derivs.)
RN 131023-51-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 9-nitro- (CA INDEX NAME)



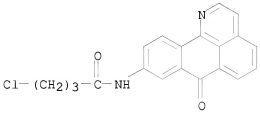
RN 946433-65-4 CAPLUS
CN Acetamide, 2-chloro-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



RN 946433-74-5 CAPLUS
CN Propanamide, 3-chloro-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



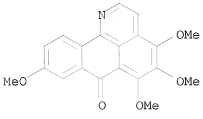
RN 946433-75-6 CAPLUS
CN Butanamide, 4-chloro-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



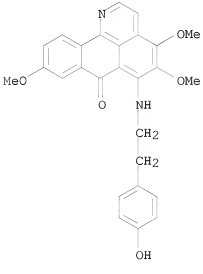
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2008:274080 CAPLUS
DOCUMENT NUMBER: 149:327460
TITLE: Biological activities of oxoisoaporphines isolated from Menispermum dauricum root cultures
AUTHOR(S): Babiker, Hind A. A.; Nakajima, Hiromitsu; Inanaga, Shinobu; Sugimoto, Yukihiro
CORPORATE SOURCE: Arid Land Research Centre, Tottori University, Tottori, 680-0001, Japan
SOURCE: Recent Progress in Medicinal Plants (2004), Volume 4, 163-173. Editor(s): Govil, J. N.; Kumar, P. Ananda; Singh, V. K. Studium Press, LLC: Houston, Tex. CODEN: 69KLGO; ISBN: 0-9656038-5-7
DOCUMENT TYPE: Conference
LANGUAGE: English
AB The effects of seven isoquinoline alkaloids, isolated from M. dauricum root cultures, on melanin biosynthesis by the fungus Pyricularia oryzae IFO 31177, and on seedling growth of rice (Oryza sativa L. cv. Yamahikari) and lettuce (Lactuca sativa L. cv. Kingcisco) were investigated. Three oxoisoaporphine alkaloids, namely, 2,3-dihydrodauriporphine, tyraminoporphine and dauriporphine, exhibited inhibitory effects on melanin production of the fungus. The same alkaloids also displayed a contrasting effect on the root growth of rice and lettuce. On the average the length of rice roots was reduced by 53-91%, while that of lettuce was enhanced by 12-95% relative to the control. However, a less effect was

obtained on the shoot growth of both crops.
IT 88142-60-3, Dauriporphine 259682-67-2
RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); BIOL (Biological study); OCCU (Occurrence)
(biol. activities of oxoisoaporphines isolated from Menispermum dauricum root cultures)
RN 88142-60-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 4,5,6,9-tetramethoxy- (CA INDEX NAME)



RN 259682-67-2 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-[[2-(4-hydroxyphenyl)ethyl]amino]-4,5,9-trimethoxy- (CA INDEX NAME)



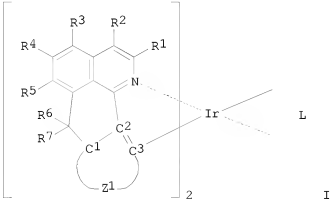
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 9 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:1109465 CAPLUS
DOCUMENT NUMBER: 147:436329
TITLE: Luminescent polymer for organic electroluminescent device and display
INVENTOR(S): Otsubo, Akihiro; Takahashi, Yoshiaki
PATENT ASSIGNEE(S): Showa Denko K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 28pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007254540	A	20071004	JP 2006-78971	20060322
PRIORITY APPLN. INFO.:			JP 2006-78971	20060322

GI



I

AB The invention relates to a luminescent polymer for an organic electroluminescent device and display, comprising an iridium complex structural unit represented by [R1-7 = H, halo, nitro, cyano, -OH, -SX1, -OCOX2, -COOX3, -SiX4X5X6, -NH, -NHX7, -NX8X9 [X1-9 =C1-22 alkyl, C6-21 aryl, C2-20 heteroaryl, and C7-21 aralkyl], C1-10 alkoxy, C1-22 alkyl, etc.; Z1 = atoms to form 5 or 6 member ring with C1-3; and L = bidentate monoanion containing polymerizable group].

IT 850040-28-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(luminescent polymer for organic electroluminescent device and display)

RN 850040-28-7 CAPLUS

CN 7H-Dibenzo[de,h]quinoline, 7,7-dimethyl- (CA INDEX NAME)

L6 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:962928 CAPLUS

DOCUMENT NUMBER: 147:343958

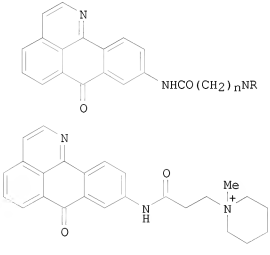
TITLE: Preparation of 1-azabenzanthrone derivatives as acetylcholinesterase inhibitors

INVENTOR(S): Gu, Lianquan; Tang, Huang; Huang, Zhishu; Wei,

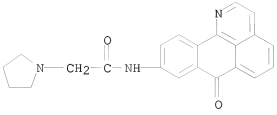
Yongbiao; Ning, Fangxian; Huang, Shiliang
PATENT ASSIGNEE(S): Sun Yat-Sen University, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 24pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 101020659	A	20070822	CN 2007-10027048	20070302
PRIORITY APPLN. INFO.:			CN 2007-10027048	20070302

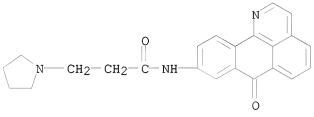
OTHER SOURCE(S): CASREACT 147:343958; MARPAT 147:343958
GI



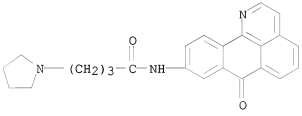
AB The title 1-azabenzanthrone derivs. I [wherein n = 1-5; NR = NH(CH2)2NMe2, NH(CH2)2OH, NHC(=O)Ph, N+Me3, etc.] were prepared as selective inhibitors of acetylcholinesterase (AChE) for treatment of Alzheimer disease, dementia, glaucoma, or myasthenia gravis (no data). For example, II•I- was prepared in a multi-step synthesis. II•I- showed inhibitory activity with IC50 of 0.48 nM against AChE.
IT 946433-66-5P 946433-76-7P 946433-77-8P
946433-78-9P 946433-79-0P 946433-80-3P
946433-81-4P 949014-02-2P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(drug candidate; preparation of 1-azabenzanthrone derivs. as acetylcholinesterase inhibitors)
RN 946433-66-5 CAPLUS
CN 1-Pyrrolidineacetamide, N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



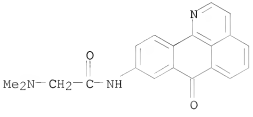
RN 946433-76-7 CAPLUS
CN 1-Pyrrolidinepropanamide, N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



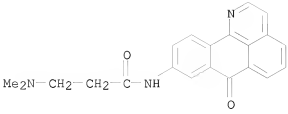
RN 946433-77-8 CAPLUS
CN 1-Pyrrolidinebutanamide, N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



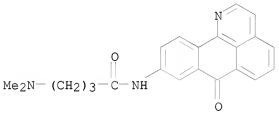
RN 946433-78-9 CAPLUS
CN Acetamide, 2-(dimethylamino)-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



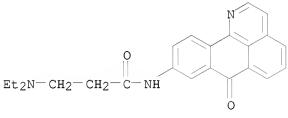
RN 946433-79-0 CAPLUS
CN Propanamide, 3-(dimethylamino)-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



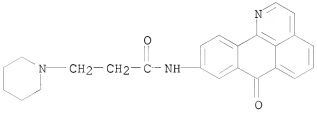
RN 946433-80-3 CAPLUS
CN Butanamide, 4-(dimethylamino)-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)-
(CA INDEX NAME)



RN 946433-81-4 CAPLUS
CN Propanamide, 3-(diethylamino)-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)-
(CA INDEX NAME)



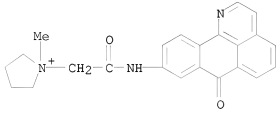
RN 949014-02-2 CAPLUS
CN 1-Piperidinepropanamide, N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA
INDEX NAME)



IT 946433-67-6P 946433-68-7P 946433-69-8P
946433-70-1P 946433-71-2P 946433-72-3P
946433-73-4P 946433-82-5P 946433-83-6P
949014-03-3P 949014-04-4P 949014-05-5P

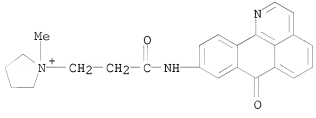
949014-07-7P 949014-09-9P 949014-11-3P
949014-13-5P 949014-15-7P 949014-17-9P
949014-19-1P 949014-21-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of 1-azabenzanthrone derivs. as acetylcholinesterase inhibitors)

RN 946433-67-6 CAPLUS
CN Pyrrolidinium, 1-methyl-1-[2-oxo-2-[(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)amino]ethyl]-, iodide (1:1) (CA INDEX NAME)



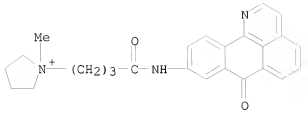
● I⁻

RN 946433-68-7 CAPLUS
CN Pyrrolidinium, 1-methyl-1-[3-oxo-3-[(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)amino]propyl]-, iodide (1:1) (CA INDEX NAME)



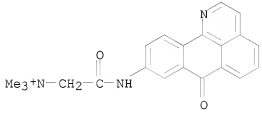
● I⁻

RN 946433-69-8 CAPLUS
CN Pyrrolidinium, 1-methyl-1-[4-oxo-4-[(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)amino]butyl]-, iodide (1:1) (CA INDEX NAME)



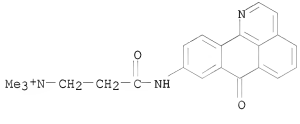
● I⁻

RN 946433-70-1 CAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-oxo-2-[(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)amino]-, iodide (1:1) (CA INDEX NAME)



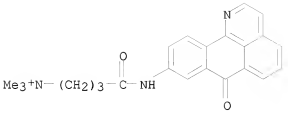
● I⁻

RN 946433-71-2 CAPLUS
CN 1-Propanaminium, N,N,N-trimethyl-3-oxo-3-[(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)amino]-, iodide (1:1) (CA INDEX NAME)



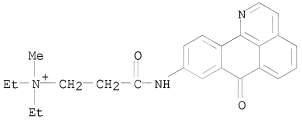
● I⁻

RN 946433-72-3 CAPLUS
CN 1-Butanaminium, N,N,N-trimethyl-4-oxo-4-[(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)amino]-, iodide (1:1) (CA INDEX NAME)



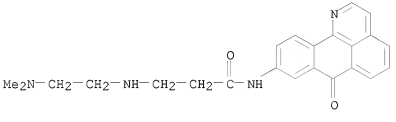
● I⁻

RN 946433-73-4 CAPLUS
CN 1-Propanaminium, N,N-diethyl-N-methyl-3-oxo-3-[(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)amino]-, iodide (1:1) (CA INDEX NAME)

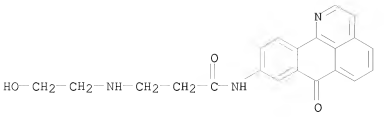


● I⁻

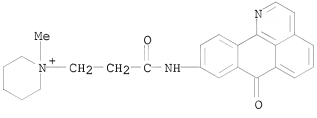
RN 946433-82-5 CAPLUS
CN Propanamide, 3-[[2-(dimethylamino)ethyl]amino]-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



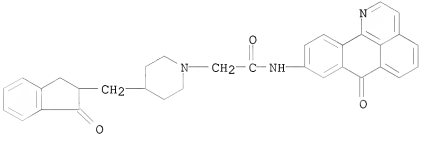
RN 946433-83-6 CAPLUS
CN Propanamide, 3-[(2-hydroxyethyl)amino]-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



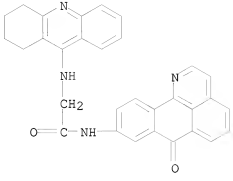
RN 949014-03-3 CAPLUS
CN Piperidinium, 1-methyl-1-[3-oxo-3-[(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)amino]propyl]-, iodide (1:1) (CA INDEX NAME)



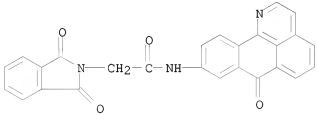
RN 949014-04-4 CAPLUS
CN 1-Piperidineacetamide, 4-[(2,3-dihydro-1-oxo-1H-inden-2-yl)methyl]-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



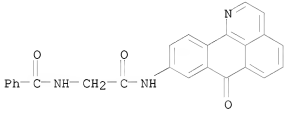
RN 949014-05-5 CAPLUS
CN Acetamide, N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)-2-[(1,2,3,4-tetrahydro-9-acridinyl)amino]- (CA INDEX NAME)



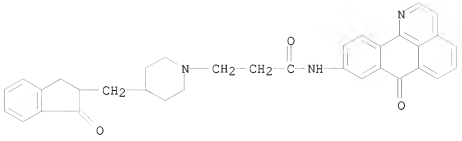
RN 949014-07-7 CAPLUS
CN 2H-Isoindole-2-acetamide, 1,3-dihydro-1,3-dioxo-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



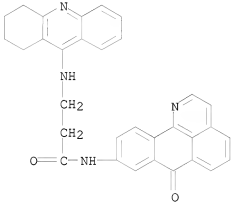
RN 949014-09-9 CAPLUS
CN Benzamide, N-[2-oxo-2-[(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)amino]ethyl]- (CA INDEX NAME)



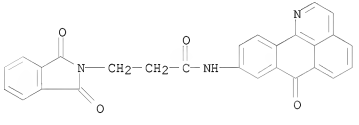
RN 949014-11-3 CAPLUS
CN 1-Piperidinepropanamide, 4-[(2,3-dihydro-1-oxo-1H-inden-2-yl)methyl]-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



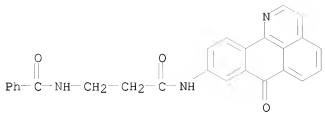
RN 949014-13-5 CAPLUS
CN Propanamide, N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)-3-[(1,2,3,4-tetrahydro-9-acridinyl)amino]- (CA INDEX NAME)



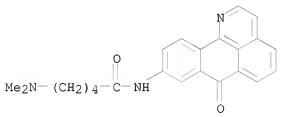
RN 949014-15-7 CAPLUS
CN 2H-Isoindole-2-propanamide, 1,3-dihydro-1,3-dioxo-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



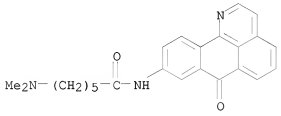
RN 949014-17-9 CAPLUS
CN Benzamide, N-[3-oxo-3-[(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)amino]propyl]- (CA INDEX NAME)



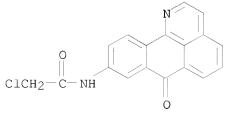
RN 949014-19-1 CAPLUS
CN Pentanamide, 5-(dimethylamino)-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)-
(CA INDEX NAME)



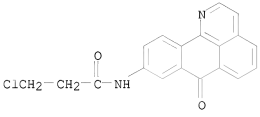
RN 949014-21-5 CAPLUS
CN Hexanamide, 6-(dimethylamino)-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)-
(CA INDEX NAME)



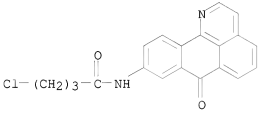
IT 946433-65-4P 946433-74-5P 946433-75-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(intermediate; preparation of 1-azabenzanthrone derivs. as
acetylcholinesterase inhibitors)
RN 946433-65-4 CAPLUS
CN Acetamide, 2-chloro-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX
NAME)



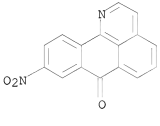
RN 946433-74-5 CAPLUS
CN Propanamide, 3-chloro-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



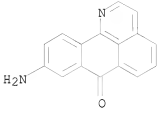
RN 946433-75-6 CAPLUS
CN Butanamide, 4-chloro-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



IT 131023-51-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of 1-azabenzanthrone derivs. as acetylcholinesterase inhibitors)
RN 131023-51-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 9-nitro- (CA INDEX NAME)



IT 131023-54-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 1-azabenzanthrone derivs. as acetylcholinesterase inhibitors)
RN 131023-54-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 9-amino- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L6 ANSWER 11 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:652192 CAPLUS
DOCUMENT NUMBER: 147:277771
TITLE: Derivatives of oxoisoaporphine alkaloids: A novel class of selective acetylcholinesterase inhibitors
AUTHOR(S): Tang, Huang; Ning, Fang-Xian; Wei, Yong-Biao; Huang, Shi-Liang; Huang, Zhi-Shu; Chan, Albert Sun-Chi; Gu, Lian-Quan
CORPORATE SOURCE: School of Pharmaceutical Sciences, Sun Yat-Sen University, Guangzhou, 510080, Peop. Rep. China
SOURCE: Bioorganic & Medicinal Chemistry Letters (2007), 17(13), 3765-3768
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 147:277771
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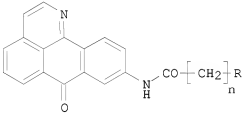


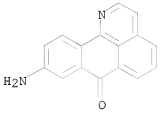
AB A series of 9-aminoalkanamido-1-azabenzanthrone derivs., such as I [R = 1-pyrrolidinyl, NMe2, n = 1, 2, 3; R = NEt2, NH(CH2)2NMe2, NH(CH2)2OH, n = 2], and corresponding quaternary methiodide salts, such as I [R = 1-methyl-1-pyrrolidinium, N+Me3.I-, n = 1, 2, 3; R = N+(Me)Et2.I-, n = 2], were designed and synthesized as acetylcholinesterase (AChE) or butyrylcholinesterase (BuChE) inhibitors. The synthetic compds. exhibited high AChE inhibitory activity with IC50 values in the nanomolar range and high selectivity for AChE over BuChE (45- to 1980-fold). The structure-activity relationships (SARs) were discussed.

IT 131023-54-6P 946433-66-5P 946433-77-8P
946433-78-9P 946433-79-0P 946433-80-3P
946433-81-4P 946433-82-5P 946433-83-6P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(synthesis and acetylcholinesterase-inhibiting activity of oxoisoaporphine alkaloid derivs.)

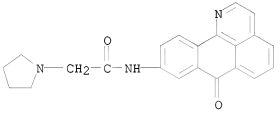
RN 131023-54-6 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one, 9-amino- (CA INDEX NAME)



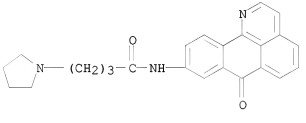
RN 946433-66-5 CAPLUS

CN 1-Pyrrolidineacetamide, N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



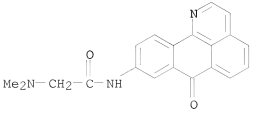
RN 946433-77-8 CAPLUS

CN 1-Pyrrolidinebutanamide, N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)

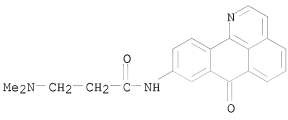


RN 946433-78-9 CAPLUS

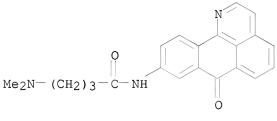
CN Acetamide, 2-(dimethylamino)-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



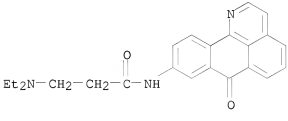
RN 946433-79-0 CAPLUS
CN Propanamide, 3-(dimethylamino)-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)-
(CA INDEX NAME)



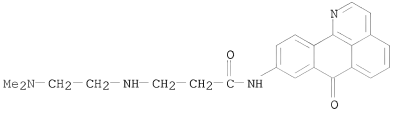
RN 946433-80-3 CAPLUS
CN Butanamide, 4-(dimethylamino)-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)-
(CA INDEX NAME)



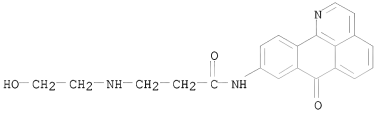
RN 946433-81-4 CAPLUS
CN Propanamide, 3-(diethylamino)-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)-
(CA INDEX NAME)



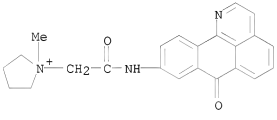
RN 946433-82-5 CAPLUS
CN Propanamide, 3-[[2-(dimethylamino)ethyl]amino]-N-(7-oxo-7H-
dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



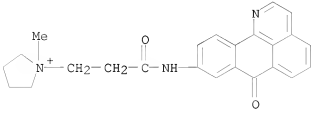
RN 946433-83-6 CAPLUS
CN Propanamide, 3-[(2-hydroxyethyl)amino]-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



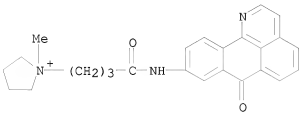
IT 946433-67-6P 946433-68-7P 946433-69-8P
946433-70-1P 946433-71-2P 946433-72-3P
946433-73-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis and acetylcholinesterase-inhibiting activity of oxoisoaporphine alkaloid derivs.)
RN 946433-67-6 CAPLUS
CN Pyrrolidinium, 1-methyl-1-[2-oxo-2-[(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)amino]ethyl]-, iodide (1:1) (CA INDEX NAME)



RN 946433-68-7 CAPLUS
CN Pyrrolidinium, 1-methyl-1-[3-oxo-3-[(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)amino]propyl]-, iodide (1:1) (CA INDEX NAME)

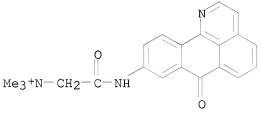


RN 946433-69-8 CAPLUS
CN Pyrrolidinium, 1-methyl-1-[4-oxo-4-[(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)amino]butyl]-, iodide (1:1) (CA INDEX NAME)



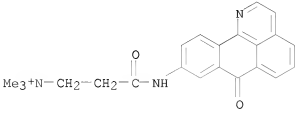
● I⁻

RN 946433-70-1 CAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-oxo-2-[(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)amino]-, iodide (1:1) (CA INDEX NAME)



● I⁻

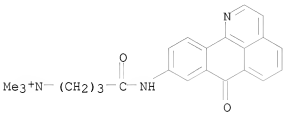
RN 946433-71-2 CAPLUS
CN 1-Propanaminium, N,N,N-trimethyl-3-oxo-3-[(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)amino]-, iodide (1:1) (CA INDEX NAME)



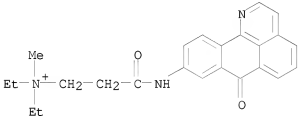
● I⁻

RN 946433-72-3 CAPLUS
CN 1-Butanaminium, N,N,N-trimethyl-4-oxo-4-[(7-oxo-7H-dibenzo[de,h]quinolin-9-

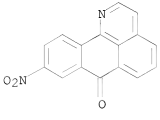
yl)amino]-, iodide (1:1) (CA INDEX NAME)



RN 946433-73-4 CAPLUS
CN 1-Propanaminium, N,N-diethyl-N-methyl-3-oxo-3-[(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)amino]-, iodide (1:1) (CA INDEX NAME)



IT 131023-51-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis and acetylcholinesterase-inhibiting activity of oxoisoaporphine alkaloid derivs.)
RN 131023-51-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 9-nitro- (CA INDEX NAME)

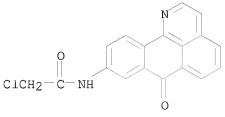


IT 946433-65-4P 946433-74-5P 946433-75-6P
946433-76-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis and acetylcholinesterase-inhibiting activity of

oxoisoaporphine alkaloid derivs.)

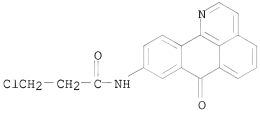
RN 946433-65-4 CAPLUS

CN Acetamide, 2-chloro-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



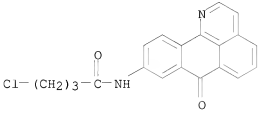
RN 946433-74-5 CAPLUS

CN Propanamide, 3-chloro-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



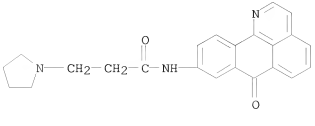
RN 946433-75-6 CAPLUS

CN Butanamide, 4-chloro-N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



RN 946433-76-7 CAPLUS

CN 1-Pyrrolidinepropanamide, N-(7-oxo-7H-dibenzo[de,h]quinolin-9-yl)- (CA INDEX NAME)



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 12 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:610720 CAPLUS
DOCUMENT NUMBER: 147:53020
TITLE: Process for preparation of ortho-metalated platinum-group metal compounds as components for electroluminescent devices
INVENTOR(S): Stoessel, Philipp; Vestweber, Horst; Heil, Holger; Parham, Amir; Fortte, Rocco; Breuning, Esther
PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany
SOURCE: Ger. Offen., 28pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102005057963	A1	20070606	DE 2005-102005057963	20051205
WO 2007065523	A1	20070614	WO 2006-EP10740	20061109
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 1957505	A1	20080820	EP 2006-828977	20061109
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
JP 2009518324	T	20090507	JP 2008-543676	20061109
US 20080312396	A1	20081218	US 2008-95970	20080603
CN 101321774	A	20081210	CN 2006-80045811	20080605
IN 2008KN02666	A	20090123	IN 2008-KN2666	20080701
KR 2008081308	A	20080909	KR 2008-716378	20080704

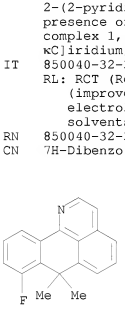
PRIORITY APPLN. INFO.: DE 2005-102005057963A 20051205
WO 2006-EP10740 W 20061109
OTHER SOURCE(S): CASREACT 147:53020; MARPAT 147:53020

AB An improved process is disclosed for cyclometalation of organic ligands L, D(cycle1)-C(cycle2) (D, C = neutral donor atom and anionic carbon atom, resp., included in the cycles) for preparation of platinum-group metal complexes [M(L1)m(L2)n] [1, M = Rh, Ir, Pd, Pt, preferably M = Ir; m+n = 3 for Rh, Ir, m+n = 2 for Pd, Pt; m = 2-3, n = 0, 1; preferably C(cycle2) = 5-20-membered optionally substituted, optionally fused C-bound (hetero)aromatic ring; D(cycle1) = 5-20-membered N-bound heterocycle, containing at least one imino- or aromatic nitrogen at the position 2 to junction and at least 2 carbon atoms], useful as luminescent components for organic light-emitting devices (no data), comprising reaction of metal salts

MXp·zH2O·yHX (2) or Yn[MXq]·zH2O·yHX (3) or dimeric complexes [M2(L1)2m(μ-X)2] with 2-50 equiv of protonated ligands HL2 [HL2 = D(cycle1)-HC(cycle2)] in the presence of 20-300 equiv of added salt(s) containing at least 2 oxygen atoms, preferably alkali-, alkaline earth metal, ammonium or phosphonium carbonates, sulfates, sulfites, nitrates, nitrites, phosphates, borates, carboxylates, sulfonates, α- and b-ketocarboxylates, β-diketonates, salicylates, benzenedicarboxylates; at 50-100° in homogeneous aqueous organic solvent containing preferably 40-60 vol% of H2O, preferably in 40-60 vol% aqueous dioxane for 5-50 h, optionally under microwave irradiation; the prepared complex 1 may be subjected to thermal or photochem. mer-fac-isomerization. The presence of water and added salt(s) resulted in substantial improvement of the reaction conditions, providing higher yields of cyclometalated complexes at milder conditions, thus enabling preparation of complexes of the type 1 containing unstable and thermally-sensitive substituents. In an example, reaction of 10 mmol of IrCl3·H2O and 60 mmol of 2-(2-pyridinyl)benzo[b]thiophene in 1000 mL of 50% aqueous dioxane in the presence of 300 mmol of sodium acetate at 80° for 30 h gave the complex 1, mer-tris[2-(2-pyridinyl-κN)-3-benzo[b]thienyl-κC]iridium, with 81.2% yield.

IT 850040-32-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(improved process for preparation of platinum-group metal metallacyclic electroluminescent arylpyridinate complexes by cyclometalation in aqueous solvents in presence of salt additives)

RN 850040-32-3 CAPLUS
CN 7H-Dibenzo[de,h]quinoline, 8-fluoro-7,7-dimethyl- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L6 ANSWER 13 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2006:1053937 CAPLUS
DOCUMENT NUMBER: 145:460739
TITLE: Ionizing rule and characteristic spectra analysis of electrospray ionization for alkaloids in Menispermum dauricum DC
AUTHOR(S): Chen, Yong; Chen, Huaixia
CORPORATE SOURCE: Hubei Province Key Lab. of Bio-Technology of Traditional Chinese Medicine, Hubei University, Wuhan, 430062, Peop. Rep. China
SOURCE: Fenxi Huaxue (2006), 34(5), 675-678
CODEN: FHHHDT; ISSN: 0253-3820
PUBLISHER: Kexue Chubanshe
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

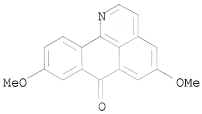
AB The MS and MS2 spectra of tetrandrine and sinomenine in pos. ion detection

mode were analyzed by electrospray ionization quadrupole ion trap mass spectrometry (ESI-QITMS), and their cleavage patterns were summarized. The alkaloids extracted from the medicinal materials were also analyzed using ESI-QITMS. Tetrandrine and sinomenine were identified in the extraction by comparing the MS2 spectra of mol. ions m/z 623 and 330 with those of tetrandrine and sinomenine stds. Other known 14 ingredients were identified according to the mol. ions in MS and the characteristic product ions in MS2. Acutumine, acutumidine and acutuminine, which were three kinds of new alkaloids containing chlorine found in the leaves of Menispermun dauricum DC., were found in the extraction The characteristic print of sixteen kinds of alkaloids (one has four kinds of isomers) in the standard medicinal materials was worked in selected ion monitor mode.

IT 96681-50-4, Bianfugecine
RL: ANT (Analyte); ANST (Analytical study)
(anal. of alkaloids in Menispermum dauricum by electrospray ionization MS)

RN 96681-50-4 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one, 5,9-dimethoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L6 ANSWER 14 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:1040729 CAPLUS

DOCUMENT NUMBER: 146:54913

TITLE: Aporphine alkaloids and their reversal activity of multidrug resistance (MDR) from the stems and rhizomes of Sinomenium acutum

AUTHOR(S): Min, Yong Deuk; Choi, Sang Un; Lee, Kang Ro

CORPORATE SOURCE: Natural Products Laboratory, College of Pharmacy, Sungkyunkwan University, Suwon, 440-746, S. Korea

SOURCE: Archives of Pharmacal Research (2006), 29(8), 627-632 CODEN: APHRDQ; ISSN: 0253-6269

PUBLISHER: Pharmaceutical Society of Korea

DOCUMENT TYPE: Journal

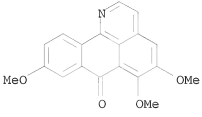
LANGUAGE: English

AB Chromatog. separation of the MeOH extract from the stems and rhizomes of Sinomenium acutum led to the isolation of nine alkaloids and a lignan. Their structures were determined to be dauriporphine (1), bianfugecine (2), dauriporphinoline (3), menisporphine (4), (-)-syringaresinol (5), N-feruloyltyramine (6), acutumine (7), dauricumine (8), sinomenine (9), and magnoflorine (10) by spectroscopic means. These compds. were examined for their P-gp mediated MDR reversal activity in human cancer cells. Compound 1 showed the most potent P-gp MDR inhibition activity with an ED50 value 0.03 μg/mL and 0.00010 μg/mL in the MES-SA/DX5 and HCT15 cells, resp.

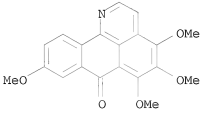
IT 83287-02-9, Menisporphine 88142-60-3, Dauriporphine
96681-50-4, Bianfugecine 100009-82-3, Dauriporphinoline

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(aporphine alkaloids from the stems and rhizomes of Sinomenium acutum and their reversal of multidrug resistance (MDR))

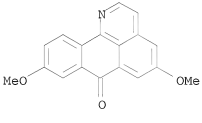
RN 83287-02-9 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5,6,9-trimethoxy- (CA INDEX NAME)



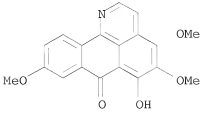
RN 88142-60-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 4,5,6,9-tetramethoxy- (CA INDEX NAME)



RN 96681-50-4 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5,9-dimethoxy- (CA INDEX NAME)

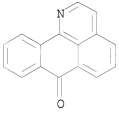


RN 100009-82-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-hydroxy-4,5,9-trimethoxy- (CA INDEX NAME)

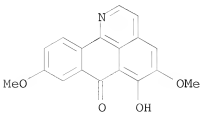


OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

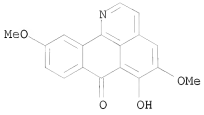
L6 ANSWER 15 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2006:943708 CAPLUS
DOCUMENT NUMBER: 147:117708
TITLE: Product class 10: anthraquinone and phenanthrenedione imines and diimines
AUTHOR(S): Avendano, C.; Menendez, J. C.
CORPORATE SOURCE: Departamento de Quimica Organica y Farmaceutica, Facultad de Farmacia, Universidad Complutense, Madrid, 28040, Spain
SOURCE: Science of Synthesis (2006), 28, 735-806
CODEN: SSCYJ9
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB A review of methods to prepare anthraquinone and phenanthrenedione imines and diimines.
IT 65543-67-1P, 7H-Dibenzo[de,h]quinolin-7-one
83287-03-0P 88741-67-7P 100009-82-3P
120346-99-8P 152027-91-3P 155269-09-3P
155269-10-6P 155269-11-7P 155269-12-8P
155269-13-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(review of preparation of anthraquinone and phenanthrenedione imines and diimines)
RN 65543-67-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



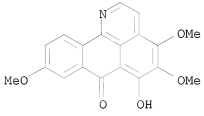
RN 83287-03-0 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-hydroxy-5,9-dimethoxy- (CA INDEX NAME)



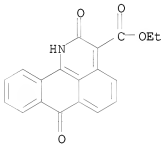
RN 88741-67-7 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-hydroxy-5,10-dimethoxy- (CA INDEX NAME)



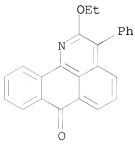
RN 100009-82-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-hydroxy-4,5,9-trimethoxy- (CA INDEX NAME)



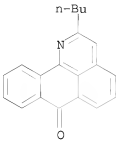
RN 120346-99-8 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-3-carboxylic acid, 2,7-dihydro-2,7-dioxo-, ethyl ester (CA INDEX NAME)



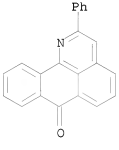
RN 152027-91-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-ethoxy-3-phenyl- (CA INDEX NAME)



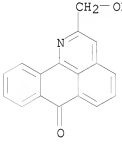
RN 155269-09-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-butyl- (CA INDEX NAME)



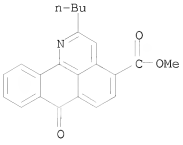
RN 155269-10-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-phenyl- (CA INDEX NAME)



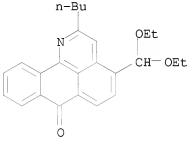
RN 155269-11-7 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-(phenoxymethyl)- (CA INDEX NAME)



RN 155269-12-8 CAPLUS
CN 7H-Dibenzo[de,h]quinoline-4-carboxylic acid, 2-butyl-7-oxo-, methyl ester (CA INDEX NAME)

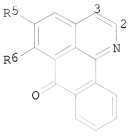


RN 155269-13-9 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-butyl-4-(diethoxymethyl)- (CA INDEX NAME)

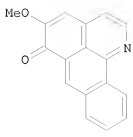


REFERENCE COUNT: 182 THERE ARE 182 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 16 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:1309145 CAPLUS
DOCUMENT NUMBER: 144:192402
TITLE: Synthesis and total assignment of 1H and 13C NMR spectra of new oxoisoaporphines by long-range heteronuclear correlations
AUTHOR(S): Sobarzo-Sanchez, Eduardo; De la Fuente, Julio; Castedo, Luis
CORPORATE SOURCE: Department of Organic Chemistry and C.S.I.C. Associated Unit, Faculty of Chemistry, University of Santiago de Compostela, Santiago de Compostela, 15782, Spain
SOURCE: Magnetic Resonance in Chemistry (2005), 43(12), 1080-1083
CODEN: MRCHEG; ISSN: 0749-1581
PUBLISHER: John Wiley & Sons Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 144:192402
GI



I



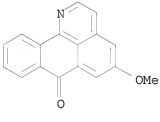
II

AB The new oxoisoaporphines I (R5 = H, OMe, R6 = H; R5 = OMe, R6 OH) were prepared by Pd/C catalyzed dehydrogenation of the corresponding 2,3-dihydro-7H-dibenzo[de,h]quinolin-7-ones. 5-Methoxy-6H-dibenzo[de,h]quinolin-6-one (II) was prepared by cyclization of [2-(3,4-dihydro-6,7-dimethoxyisoquinolin-1-yl)phenyl]methyl benzoate using an AcOH/H2SO4 mixture at 100 °C. Oxoisoaporphine I (R5 = OH, R6 = H) was prepared by treating I (R5 = OMe, R6 = H) with Zn dust and HCl. The structures prepared oxoisoaporphines were confirmed, and 1H and 13C NMR spectra were completely assigned using two-dimensional NMR techniques.

IT 28399-74-8P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis and total assignment of 1H and 13C NMR spectra of new oxoisoaporphines by long-range heteronuclear correlations)

RN 28399-74-8 CAPLUS

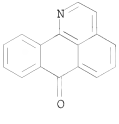
CN 7H-Dibenzo[de,h]quinolin-7-one, 5-methoxy- (CA INDEX NAME)



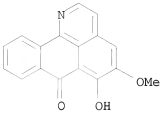
IT 65543-67-1P, 7H-Dibenzo[de,h]quinolin-7-one
631914-67-5P 874990-03-1P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(synthesis and total assignment of 1H and 13C NMR spectra of new oxoisoaporphines by long-range heteronuclear correlations)

RN 65543-67-1 CAPLUS

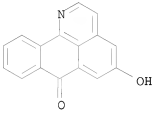
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



RN 631914-67-5 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-hydroxy-5-methoxy- (CA INDEX NAME)



RN 874990-03-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5-hydroxy- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 17 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:888206 CAPLUS
DOCUMENT NUMBER: 143:213197
TITLE: Jet-printing inks with good light and ozone resistance, and jet printing method using them
INVENTOR(S): Oya, Hidenobu; Suzuki, Takashi; Takahashi, Mari; Ikesu, Satoru
PATENT ASSIGNEE(S): Konica Minolta Holdings, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 88 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005225944	A	20050825	JP 2004-34772	20040212
PRIORITY APPLN. INFO.:			JP 2004-34772	20040212

OTHER SOURCE(S): MARPAT 143:213197
GI

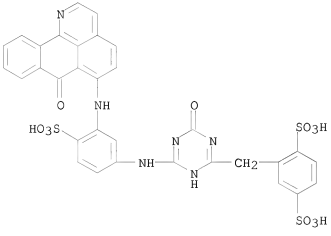
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The inks contain ≥1 dyes selected from I (R11 = branched alkyl, cycloalkyl, hetero ring, amino; R12-14 = H, substituent; n11 = 1-3; n12 = 1-4), II (R31-35 = H, substituent; n31 = 1-3), III (R91-94 = H, substituent; n91 = 1-3; n92 = 1, 2), perimidin-4-one derivs., and other dyes having 9-anthracenone structures or 1-naphthalenone structures. Thus, an ink containing I Na salt [R11 = tert-Bu, R12 = Me, R13 = 2,4-disulfophenylamino (at 1 position), R14 = H, n11 = 1, n12 = 4] was printed on a paper medium with 60° gloss 38% that was coated with a composition containing silica (A 300), polyvinyl alc. (PVA 235), and acrylic acid-Me acrylate-acryloyloxypropyltrimethylammonium chloride copolymer to give an image showing suppressed discoloration by ozone.

IT 862251-36-3D, salts
RL: TEM (Technical or engineered material use); USES (Uses)
(dye; dyes for jet-printing inks with good light and ozone resistance)

RN 862251-36-3 CAPLUS

CN 1,4-Benzenedisulfonic acid, 2-[[5,6-dihydro-6-oxo-4-[[3-[(7-oxo-7H-dibenzo[de,h]quinolin-6-yl)amino]-4-sulfophenyl]amino]-1,3,5-triazin-2-yl]methyl]- (CA INDEX NAME)



L6 ANSWER 18 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER:	2005:811006 CAPLUS
DOCUMENT NUMBER:	143:213187
TITLE:	Color ink sets containing phthalocyanine dyes and nitrogen-containing heterocyclic dyes for ink-jet printing
INVENTOR(S):	Takahashi, Mari; Yasukawa, Hiroyuki; Suzuki, Takashi; Ikesu, Satoru
PATENT ASSIGNEE(S):	Konica Minolta Holdings, Inc., Japan
SOURCE:	Jpn. Kokai Tokkyo Koho, 95 pp. CODEN: JKXXAF
DOCUMENT TYPE:	Patent
LANGUAGE:	Japanese
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005220186	A	20050818	JP 2004-27799	20040204
PRIORITY APPLN. INFO.:			JP 2004-27799	20040204
OTHER SOURCE(S):	MARPAT 143:213187			

GI

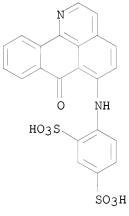
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The ink sets, consisting of ≥2 inks with different colors, contain phthalocyanines I [X1-X4 = SOZ, SO2Z, SO2NRaRb, SO3H, CONRaRb, CO2Ra; Z = (un)substituted (cyclo)alkyl, alkenyl, aralkyl, aryl, heterocyclyl; Ra, Rb = H, (un)substituted (cyclo)alkyl, alkenyl, aralkyl, aryl, heterocyclyl; Y1-Y4 = monovalent substituent; a1-a4, b1-b4 = 0-4; ≥1 of a1-a4 ≠ 0; M = H, metal, metal oxide, metal hydroxide, metal halide] and heterocyclic compds. II [A = (un)substituted pyridine ring, pyridazine ring, pyrimidine ring, etc.; R2, R3 = H, substituent; m = 0-3; n = 0-4]. The inks provides images with high quality and storage stability.

IT 862157-15-1 862157-16-2 862157-17-3
RL: TEM (Technical or engineered material use); USES (Uses)
(color ink sets containing phthalocyanine dyes and N-containing heterocyclic dyes for ink-jet printing)

RN 862157-15-1 CAPLUS

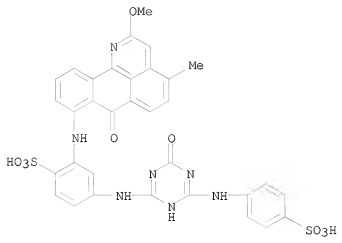
CN 1,3-Benzenedisulfonic acid, 4-[(7-oxo-7H-dibenzo[de,h]quinolin-6-yl)amino]-, potassium salt (1:2) (CA INDEX NAME)



●2 K

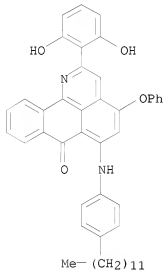
RN 862157-16-2 CAPLUS

CN Benzenesulfonic acid, 4-[[1,4-dihydro-4-oxo-6-[(4-sulfophenyl)amino]-1,3,5-triazin-2-yl]amino]-2-[(2-methoxy-4-methyl-7-oxo-7H-dibenzo[de,h]quinolin-8-yl)amino]-, dipotassium salt (9CI) (CA INDEX NAME)



●2 K

RN 862157-17-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-(2,6-dihydroxyphenyl)-6-[(4-dodecylphenyl)amino]-4-phenoxy- (CA INDEX NAME)

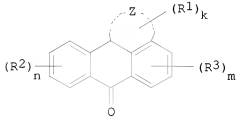


L6 ANSWER 19 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:635138 CAPLUS
DOCUMENT NUMBER: 143:142703
TITLE: Electrophotographic color toner for manufacturing optical disks, thermographic copying sheets, and color filters of optical imaging devices
INVENTOR(S): Takahashi, Mari; Suzuki, Takashi; Yasukawa, Hiroyuki; Ikesu, Satoru
PATENT ASSIGNEE(S): Konica Minolta Holdings, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 65 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005196018	A	20050721	JP 2004-3811	20040109

PRIORITY APPLN. INFO.: JP 2004-3811 20040109
OTHER SOURCE(S): MARPAT 143:142703
GI

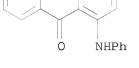


I

AB The title toner contains compound I(Z = N-containing heterocyclic ring; R1-3 = H, substituent; k = integer 0-2; m = integer 0-3; n = integer 0-4). The toner provides light-resistant images or pattern of good color and high color transparency and is suitable for manufacturing optical disks, thermog. copying sheets, and color filters of optical imaging devices.

IT 859161-41-4P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(electrophotog. color toner for manufacturing optical disks, thermog. copying sheets, and color filters of optical imaging devices)

RN 859161-41-4 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-methoxy-3-methyl-6-(phenylamino)- (CA INDEX NAME)



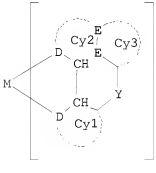
L6 ANSWER 20 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:324257 CAPLUS
DOCUMENT NUMBER: 142:402930
TITLE: Metal complexes and condensed ring-containing ligands and their preparation and use in electronic devices

INVENTOR(S): Fortte, Rocco; Stoessel, Philipp; Gerhard, Anja; Vestweber, Horst
PATENT ASSIGNEE(S): Covion Organic Semiconductors G.m.b.H., Germany
SOURCE: PCT Int. Appl., 54 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005033244	A1	20050414	WO 2004-EP10836	20040928
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10345572	A1	20050519	DE 2003-10345572	20030929
EP 1675929	A1	20060705	EP 2004-765652	20040928
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1860202	A	20061108	CN 2004-80028250	20040928
JP 2007507448	T	20070329	JP 2006-530031	20040928
KR 2006088889	A	20060807	KR 2006-706034	20060328
US 20070034863	A1	20070215	US 2006-573931	20060815

PRIORITY APPLN. INFO.: DE 2003-10345572 A 20030929
WO 2004-EP10836 W 20040928

OTHER SOURCE(S): MARPAT 142:402930
GI

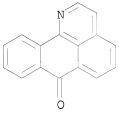


I

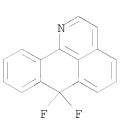
AB Metalorg. compds. described by the general formula M(L)n(L')m(L")o are described which have a partial structure described by the general formula I (M = a transition metal; Y = independently selected for each occurrence from BR1, CR2, C=O, C=NR1, C=CR2, SiR12, NR1, PR1, AR1, SbR1, BiR1, P(O)R1, P(S)-R1, P(Se)R1, As (O)R1, As (S)-R1, As (Se)R1, Sb(O)R1,

Sb(S)-R1, Sb(Se)R1, Bi(O)R1, Bi(S)-R1, Bi(Se)R1, 0, S, Se, Te, SO, SeO, TeO, SO, SeO2, TeO2 or a single bond; D = independently selected C or a heteroatom with a nonbonded electron pair coordinated to the metal atom with the restriction that ≥1 D per ligand is C; E = independently selected C or N with the restriction that ≥1 E is C; Cy1, Cy2, Cy3 = independently selected (un)saturated or aromatic homo- or heterocycle; R1 = independently selected H or C1-20 aliphatic or aromatic hydrocarbon residue; n = 1, 2, or 3; L' and L" = monoanionic bidentate ligands; and m, o = 0, 1, or 2). Ligands associated with formula I are also described. Methods for preparing the complexes are described which entail the reaction of the ligands with metal ketonates, metal alcoholates, or single or multicentered metal halides. Polymers and dendrimers incorporating the complexes are described. The use of the metalorg. compds. in electronic devices and electronic devices (e.g., organic light-emitting diodes, organic integrated circuits, organic field-effect transistors, organic thin-film transistors, organic solar cells, or organic laser diodes) employing the materials are also described.

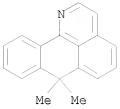
IT 65543-67-1, 1-Azabenzanthrone
RL: RCT (Reactant); RACT (Reactant or reagent)
(metal complexes and condensed ring-containing ligands and their preparation and
use in electronic devices)
RN 65543-67-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



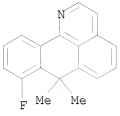
IT 850040-25-4P 850040-28-7P 850040-32-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(metal complexes and condensed ring-containing ligands and their preparation and
use in electronic devices)
RN 850040-25-4 CAPLUS
CN 7H-Dibenzo[de,h]quinoline, 7,7-difluoro- (CA INDEX NAME)



RN 850040-28-7 CAPLUS
CN 7H-Dibenzo[de,h]quinoline, 7,7-dimethyl- (CA INDEX NAME)



RN 850040-32-3 CAPLUS
CN 7H-Dibenzo[de,h]quinoline, 8-fluoro-7,7-dimethyl- (CA INDEX NAME)

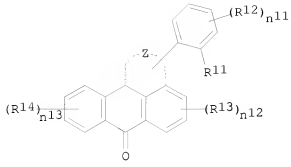


OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:451665 CAPLUS
DOCUMENT NUMBER: 141:25180
TITLE: Anthraquinone dye-containing water-thinned jet-printing ink with good light fastness
INVENTOR(S): Iwamoto, Kyoko; Ninomiya, Hidetaka; Ikesu, Satoru; Suzuki, Takatugu; Takahashi, Mari
PATENT ASSIGNEE(S): Konica Minolta Holdings, Inc., Japan
SOURCE: U.S. Pat. Appl. Publ., 62 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 20040106782	A1	20040603	US 2003-717141		20031119
US 7011701	B2	20060314			
JP 2004190007	A	20040708	JP 2003-348021		20031007
PRIORITY APPLN. INFO.:			JP 2002-343792	A	20021127
			JP 2003-348021	A	20031007

OTHER SOURCE(S): MARPAT 141:25180
GI



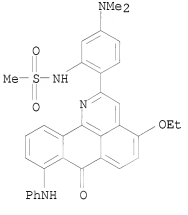
I

AB A group of dyes are disclosed, which are represented by the formula of I, wherein Z is an atomic group necessary to form a 6-membered nitrogen-containing aromatic ring; R11 is a hydrogen bonding group; R12 , R13 and R14 are independently a hydrogen atom or a substituent; n11 and n13 are each an integer of 1 to 4; and n12 is an integer of 1 to 3. Thus, 2% of a prepared dye was dissolved in a solution comprising ethylene glycol (15 %), glycerin (15%), Surfinol 465 (0.3%), and water, to give a sample showing superior light stability, as compared to comparative inks in a test.

IT 698354-01-7D, sulfonated, salts 698354-38-0
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(anthraquinone dye-containing water-thinned jet-printing ink with good light fastness)

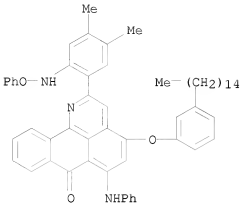
RN 698354-01-7 CAPLUS

CN Methanesulfonamide, N-[5-(dimethylamino)-2-[4-ethoxy-7-oxo-8-(phenylamino)-7H-dibenzo[de,h]quinolin-2-yl]phenyl]- (CA INDEX NAME)



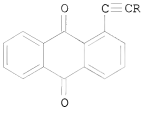
RN 698354-38-0 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one, 2-[4,5-dimethyl-2-(phenoxyamino)phenyl]-4-(3-pentadecylphenoxy)-6-(phenylamino)- (CA INDEX NAME)

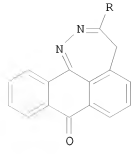


OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

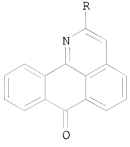
L6 ANSWER 22 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:152301 CAPLUS
DOCUMENT NUMBER: 141:395526
TITLE: Cyclocondensation reactions of acetylenic quinone derivatives with hydrazine
AUTHOR(S): Shvartsberg, M. S.; Ivanchikova, I. D.; Barabanov, I. I.
CORPORATE SOURCE: Inst. Khim. Kinet. Goreniya, SO RAN, Novosibirsk, 630090, Russia
SOURCE: Azotistye Geterotsikly i Alkaloidy, [Materialy Mezhdunarodnoi Konferentsii "Khimiya i Biologicheskaya Aktivnost Azotistykh Geterotsiklov i Alkaloidov"], 1st, Moskva, Russian Federation, Oct. 9-12, 2001 (2001), Volume 1, 582-586. Editor(s): Kartsev, V. G.; Tolstikov, G. A. Iridium-Press: Moscow, Russia.
CODEN: 69FCD3
DOCUMENT TYPE: Conference
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 141:395526
GI



I



II



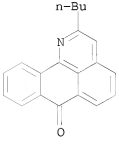
III

AB A symposium lecture on cyclocondensation reactions of alkynyl-substituted anthra- and naphthaquinones with hydrazine. E.g., reaction of alkynyl-substituted anthraquinones (I; R = Bu, Ph, CH2OPh, CMe2OH) with excess NH2NH2 in pyridine at 90-115° for 20-90 min gave mixts. of 45-64% diazepineanthrones (II; same R) and 17-38% pyridineanthrones (III; same R). The effects of substituents on the regiochem. of the reaction is discussed. Other ring systems formed include benzo[de]cinnoline-7-ones, pyrazoleanthrones and benzo[f]isoindole-4,9-diones.

IT 155269-09-3P 155269-10-6P 155269-11-7P
155269-12-8P 155269-13-9P 220632-10-0P
220632-11-1P 220632-12-2P 426207-03-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(cyclocondensation reactions of alkynyl-substituted anthra- and naphthaquinones with hydrazine and substituent effects on regiochem.)

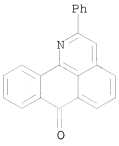
RN 155269-09-3 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one, 2-butyl- (CA INDEX NAME)

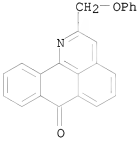


RN 155269-10-6 CAPLUS

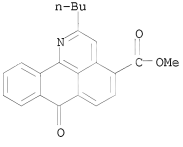
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-phenyl- (CA INDEX NAME)



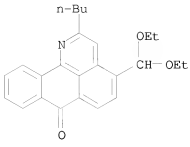
RN 155269-11-7 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-(phenoxymethyl)- (CA INDEX NAME)



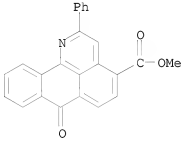
RN 155269-12-8 CAPLUS
CN 7H-Dibenzo[de,h]quinoline-4-carboxylic acid, 2-butyl-7-oxo-, methyl ester (CA INDEX NAME)



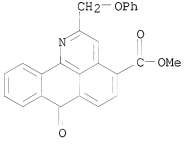
RN 155269-13-9 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-butyl-4-(diethoxymethyl)- (CA INDEX NAME)



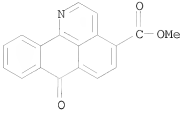
RN 220632-10-0 CAPLUS
CN 7H-Dibenzo[de,h]quinoline-4-carboxylic acid, 7-oxo-2-phenyl-, methyl ester (CA INDEX NAME)



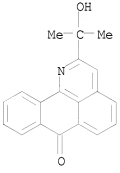
RN 220632-11-1 CAPLUS
CN 7H-Dibenzo[de,h]quinoline-4-carboxylic acid, 7-oxo-2-(phenoxymethyl)-, methyl ester (CA INDEX NAME)



RN 220632-12-2 CAPLUS
CN 7H-Dibenzo[de,h]quinoline-4-carboxylic acid, 7-oxo-, methyl ester (CA INDEX NAME)



RN 426207-03-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-(1-hydroxy-1-methylethyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L6 ANSWER 23 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:947737 CAPLUS
DOCUMENT NUMBER: 140:6216
TITLE: Dyes for ink jet recording liquid
INVENTOR(S): Iwamoto, Kyoko; Ikesu, Satoru; Suzuki, Takatsugu
PATENT ASSIGNEE(S): Konica Corporation, Japan
SOURCE: Eur. Pat. Appl., 32 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1367104	A1	20031203	EP 2003-253047	20030515
EP 1367104	B1	20071212		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2003342504	A	20031203	JP 2002-153904	20020528
JP 3979186	B2	20070919		
US 20030230216	A1	20031218	US 2003-437660	20030514
US 6916364	B2	20050712		

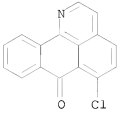
PRIORITY APPLN. INFO.: JP 2002-153904 A 20020528
OTHER SOURCE(S): MARPAT 140:6216
AB An ink jet recording liquid including a N-containing fused ring compound Each dye

(2%), 15% ethylene glycol, 15% glycerin, 0.3% Surfynol 465, and pure water were mixed, filtered, and printed onto photo-jet coated paper to evaluate color tone, storage stability, and light fastness.

IT 627544-09-6P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(dye intermediate preparation and sulfonation; magenta dyes for ink jet recording of images with excellent balance of color tone, stability, and light fastness)

RN 627544-09-6 CAPLUS

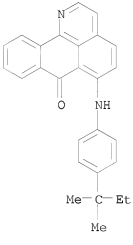
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-chloro- (CA INDEX NAME)



IT 627544-10-9P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(dye; magenta dyes for ink jet recording of images with excellent balance of color tone, stability, and light fastness)

RN 627544-10-9 CAPLUS

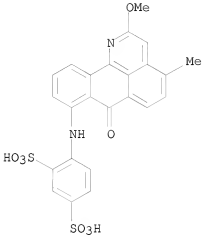
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-[[4-(1,1-dimethylpropyl)phenyl]amino]- (CA INDEX NAME)



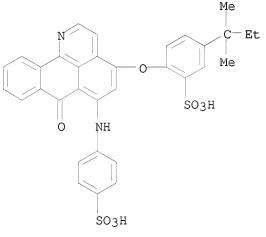
IT 627544-17-6D, salts 627544-18-7D, salts
627544-19-8D, salts 627544-22-3 627544-25-6
RL: TEM (Technical or engineered material use); USES (Uses)
(dye; magenta dyes for ink jet recording of images with excellent balance of color tone, stability, and light fastness)

RN 627544-17-6 CAPLUS

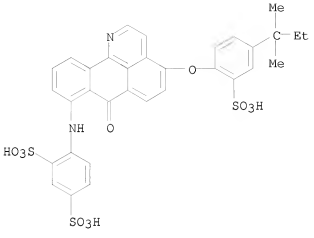
CN 1,3-Benzenedisulfonic acid, 4-[(2-methoxy-4-methyl-7-oxo-7H-dibenzo[de,h]quinolin-8-yl)amino]- (CA INDEX NAME)



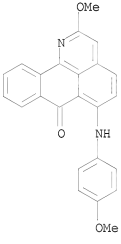
RN 627544-18-7 CAPLUS
CN Benzenesulfonic acid, 5-(1,1-dimethylpropyl)-2-[[7-oxo-6-[(4-sulfophenyl)amino]-7H-dibenzo[de,h]quinolin-4-yl]oxy]- (CA INDEX NAME)



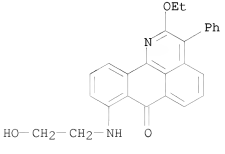
RN 627544-19-8 CAPLUS
CN 1,3-Benzenedisulfonic acid, 4-[[4-[4-(1,1-dimethylpropyl)-2-sulfophenoxy]-7-oxo-7H-dibenzo[de,h]quinolin-8-yl]amino]- (CA INDEX NAME)



RN 627544-22-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-methoxy-6-[(4-methoxyphenyl)amino]- (CA INDEX NAME)



RN 627544-25-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-ethoxy-8-[(2-hydroxyethyl)amino]-3-phenyl- (CA INDEX NAME)



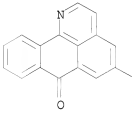
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 24 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:732804 CAPLUS
DOCUMENT NUMBER: 140:27474
TITLE: An expedient synthesis of unusual oxoisoaporphine and annelated quinoline derivatives
AUTHOR(S): Sobarzo-Sanchez, Eduardo; Cassels, Bruce K.; Castedo, Luis
CORPORATE SOURCE: Department of Chemistry, Faculty of Sciences, University of Chile, Santiago, Chile
SOURCE: Synlett (2003), (11), 1647-1650
CODEN: SYNLES; ISSN: 0936-5214
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 140:27474

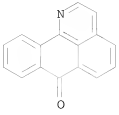
AB Several 2,3-dihydro-7H-dibenzo[de,h]quinolin-7-ones and 7H-dibenzo[de,h]quinolin-7-ones were catalytically hydrogenated over PtO2 in acetic acid to afford 7-hydroxyquinoline and quinolone derivs. with reduced benzene rings. Reactants used in this study included 2,3-dihydro-7H-dibenzo[de,h]quinolin-7-one, 2,3-dihydro-5-methoxy-7H-dibenzo[de,h]quinolin-7-one, 2,3-dihydro-6-hydroxy-5-methoxy-7H-dibenzo[de,h]quinolin-7-one. The conversion of 5,6,9-trimethoxy-7H-dibenzo[de,h]quinolin-7-one (menisporpphine) to 5,9-dimethoxy-7H-dibenzo[de,h]quinolin-7-one (bianfugecine) was discussed.

IT 28399-74-8, 5-Methoxy-7H-dibenzo[de,h]quinolin-7-one
65543-67-1, 7H-Dibenzo[de,h]quinolin-7-one 83287-02-9,
5,6,9-Trimethoxy-7H-dibenzo[de,h]quinolin-7-one 631914-67-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(expedient synthesis of unusual oxoisoaporphine and annelated quinoline derivs.)

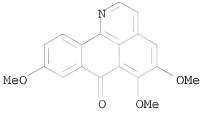
RN 28399-74-8 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5-methoxy- (CA INDEX NAME)



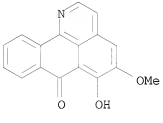
RN 65543-67-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



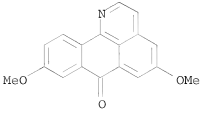
RN 83287-02-9 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5,6,9-trimethoxy- (CA INDEX NAME)



RN 631914-67-5 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-hydroxy-5-methoxy- (CA INDEX NAME)



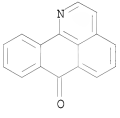
IT 96681-50-4P, 5,9-Dimethoxy-7H-dibenzo[de,h]quinolin-7-one
RL: SPN (Synthetic preparation); PREP (Preparation)
(expedient synthesis of unusual oxoisoaporphine and annelated quinoline derivs.)
RN 96681-50-4 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5,9-dimethoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS

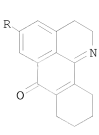
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 25 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:667156 CAPLUS
DOCUMENT NUMBER: 139:356236
TITLE: Crystal structure of 2,3,8,9,10,11-hexahydro-7H-dibenzo[de,h]quinolin-7-one, C16H15NO
AUTHOR(S): Sobarzo-Sanchez, E.; Cassels, B. K.; Castedo, L.; Valencia-Matarranz, L.; Perez-Lourido, P.
CORPORATE SOURCE: Universidad de Chile. Facultad de Ciencias, Departamento de Quimica, Casilla 653, Santiago, Chile
SOURCE: Zeitschrift fuer Kristallographie - New Crystal Structures (2003), 218(2), 177-178
CODEN: ZKNSFT; ISSN: 1433-7266
PUBLISHER: Oldenbourg Wissenschaftsverlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The title compound is monoclinic, space group P21/a, a 7.085(1), b 18.587(3), c 9.080(2) Å, β 95.30(2)°, Z = 4, Rgt(F) = 0.068, wRref(F2) = 0.239, T = 293 K. Atomic coordinates are given. The structure of the mol. is largely planar. Some bond distances and torsion angles are given and discussed.
IT 65543-67-1, Dibenzo[de,h]Quinolin-7-one
RL: RCT (Reactant); RACT (Reactant or reagent)
(catalytic hydrogenation of dibenzoquinolinone in acetic acid by platinum oxide)
RN 65543-67-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)

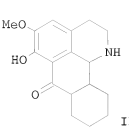


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

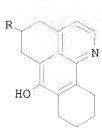
L6 ANSWER 26 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:512643 CAPLUS
DOCUMENT NUMBER: 139:365106
TITLE: Complete 1H and 13C NMR spectral assignment of hydrogenated oxoisoaporphine derivatives
AUTHOR(S): Sobarzo-Sanchez, Eduardo; Cassels, Bruce K.; Castedo, Luis
CORPORATE SOURCE: Department of Chemistry, Faculty of Sciences, University of Chile, Santiago, Chile
SOURCE: Magnetic Resonance in Chemistry (2003), 41(7), 545-548
CODEN: MRCHEG; ISSN: 0749-1581
PUBLISHER: John Wiley & Sons Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:365106
GI



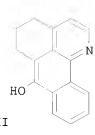
I



II



III



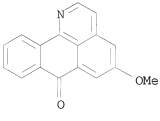
IV

AB 2,3,8,9,10,11-Hexahydro-7H-dibenzo[de,h]quinolin-7-one (I; R = H), 5-methoxy-2,3,8,9,10,11-hexahydro-7H-dibenzo[de,h]quinolin-7-one I (R = OMe), 5-methoxy-6-hydroxy-1,2,3,7a,8,9,10,11,11a,11b-decahydro-7H-dibenzo[de,h]quinolin-7-one (II), 5-methoxy-5,6,8,9,10,11-hexahydro-4H-dibenzo[de,h]quinolin-7-ol (III; R = OMe), 5,6,8,9,10,11-hexahydro-4H-dibenzo[de,h]quinolin-7-ol III (R = H), and 5,6-dihydro-4H-dibenzo[de,h]quinolin-7-ol (IV) were prepared by catalytic hydrogenation of oxoisoaporphines or their 2,3-dihydro derivs. over PtO2 in acetic acid under mild conditions. Their structures were confirmed and 1H and 13C NMR spectra were completely assigned using a combination of one- and two-dimensional NMR techniques.

IT 28399-74-8 65543-67-1, 7H-Dibenzo[de,h]quinolin-7-one
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and NMR spectral assignment of hydrogenated oxoisoaporphine derivs.)

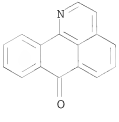
RN 28399-74-8 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one, 5-methoxy- (CA INDEX NAME)



RN 65543-67-1 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

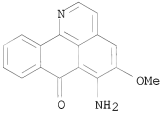
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 27 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2002:851259 CAPLUS
DOCUMENT NUMBER: 138:69919
TITLE: Lakshminine, a New Rare Oxoisoaporphine Alkaloid from Sciadotenia toxifera, and Structural Revisions of Telazoline and Teladiazoline, Two Related Oxoaporphines from Telitoxicum peruvianum and T. glaziovii
AUTHOR(S): Killmer, Lew; Vogt, Frederick G.; Freyer, Alan J.; Menachery, Mary D.; Adelman, Clark M.
CORPORATE SOURCE: Department of Analytical Sciences, GlaxoSmithKline Pharmaceuticals, King of Prussia, PA, 19406-0939, USA
SOURCE: Journal of Natural Products (2003), 66(1), 115-118 CODEN: JNPRDF; ISSN: 0163-3864
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Lakshminine, a novel oxoisoaporphine alkaloid possessing a C-6 amine substituent, was isolated from a basic fraction from the woody vines (collected from two bush-ropes) of Sciadotenia toxifera. This compound represents the first documented occurrence of an oxoisoaporphine from any Menispermaceae species other than Menispermum dauricum. The structures of two related aporphine alkaloids, telazoline and teladiazoline, were revised on the basis of a comparison of their spectral data with that of lakshminine.

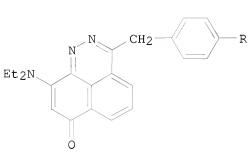
IT 479669-27-7P, Lakshminine
RL: NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(lakshminine, an oxoisoaporphine alkaloid from Sciadotenia toxifera)
RN 479669-27-7 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-amino-5-methoxy- (CA INDEX NAME)



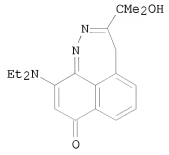
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 28 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2002:88151 CAPLUS
DOCUMENT NUMBER: 136:386085
TITLE: Cyclocondensation of 5-ethynyl-1,4-naphthoquinone derivatives with hydrazine
AUTHOR(S): Ivanchikova, I. D.; Myasnikova, R. N.; Shvartsberg, M. S.
CORPORATE SOURCE: Institute of Chemical Kinetics and Combustion, Siberian Branch of the Russian Academy of Sciences,

Novosibirsk, 630090, Russia
SOURCE: Russian Chemical Bulletin (Translation of Izvestiya Akademii Nauk, Seriya Khimicheskaya) (2001), 50(9), 1668-1672
CODEN: RCBUEY; ISSN: 1066-5285
PUBLISHER: Kluwer Academic/Consultants Bureau
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:386085
GI



I



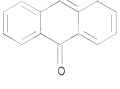
II

AB Condensation of 5-(arylethynyl)-3-(diethylamino)naphthoquinones with NH2NH2 afforded 3-benzyl-9-(diethylamino)benzo[de]cinnolin-7-ones (I; R = H, OMe, NO2). The substituents in the Ph ring had a pronounced effect on the reaction time and the yields of benzocinnolinones and byproducts. Replacement of the arylethynyl substituent in the starting naphthoquinone by a 3-hydroxyalk-1-ynyl group leads to a change in the direction of cyclization, resulting in substituted naphtho[1,8-cd]-1,2-diazepin-8-ones, e.g., II, as condensation products.

IT 426207-03-6P
RL: BYP (Byproduct); PREP (Preparation)
(cyclocondensation of 5-ethynyl-1,4-naphthoquinone derivs. with hydrazine)

RN 426207-03-6 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one, 2-(1-hydroxy-1-methylethyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

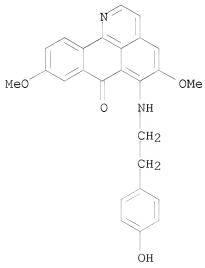
L6 ANSWER 29 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2001:450164 CAPLUS
DOCUMENT NUMBER: 135:192854
TITLE: Cytotoxic oxoisoaporphine alkaloids from Menispermum dauricum
AUTHOR(S): Yu, Bing-Wu; Meng, Ling-Hua; Chen, Jian-Yong; Zhou, Tian-Xi; Cheng, Kin-Fai; Ding, Jian; Qin, Guo-Wei
CORPORATE SOURCE: Shanghai Institute of Materia Medica Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai, 200031, Peop. Rep. China
SOURCE: Journal of Natural Products (2001), 64(7), 968-970
CODEN: JNPRDF; ISSN: 0163-3864
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

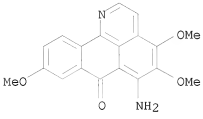
AB Four new oxoisoaporphine alkaloids, daurioxoisoporphines A-D (I-IV), were isolated from the rhizomes of Menispermum dauricum. The structures of these alkaloids were established by spectroscopic methods. The cytotoxic evaluation of I and II is reported against four cancer cell lines.

IT 356047-64-8P, Daurioxoisoporphine A 356047-65-9P, Daurioxoisoporphine B
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(cytotoxic oxoisoaporphine alkaloids from Menispermum dauricum)

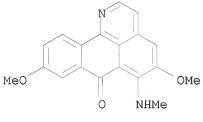
RN 356047-64-8 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-[[2-(4-hydroxyphenyl)ethyl]amino]-5,9-dimethoxy- (CA INDEX NAME)



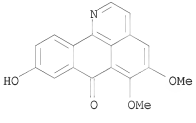
RN 356047-65-9 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-amino-4,5,9-trimethoxy- (CA INDEX NAME)



IT 356047-66-0P, Daurioxoisoporphine C 356047-67-1P, Daurioxoisoporphine D
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(oxoisoaporphine alkaloids from Menispermum dauricum)
RN 356047-66-0 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5,9-dimethoxy-6-(methylamino)- (CA INDEX NAME)



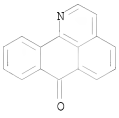
RN 356047-67-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 9-hydroxy-5,6-dimethoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

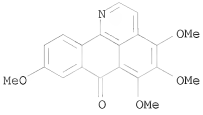
L6 ANSWER 30 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2001:226766 CAPLUS
DOCUMENT NUMBER: 135:196831
TITLE: 1-Azabenzanthrone colorants
AUTHOR(S): Sekar, N.
CORPORATE SOURCE: Dyes Division, UDCT, Mumbai, 400 019, India

SOURCE: Colourage (2001), 48(1), 54-57
CODEN: COLOBG; ISSN: 0010-1826
PUBLISHER: Colour Publications Pvt. Ltd.
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB The chemical of 1-azabenzanthrone, with special reference to colorants for synthetic materials, vat dyes, and intermediates used in their synthesis is reviewed with 50 refs.
IT 65543-67-1DP, 1-Azabenzanthrone, derivs.
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(azabenzanthrone colorants)
RN 65543-67-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)

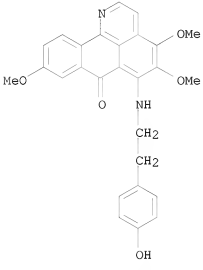


REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 31 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2000:38814 CAPLUS
DOCUMENT NUMBER: 132:178069
TITLE: Oxoisoaporphines from Menispermum dauricum
AUTHOR(S): Sugimoto, Yukihiro; Babiker, Hind A. A.; Inanaga, Shinobu; Kato, Masako; Isogai, Akira
CORPORATE SOURCE: Arid Land Research Center, Tottori University, Tottori, 680-0001, Japan
SOURCE: Phytochemistry (1999), 52(8), 1431-1435
CODEN: PYTCAS; ISSN: 0031-9422
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Two oxoisoaporphine alkaloids, 2,3-dihydrodauriporphine and tyraminoporphine, in addition to the known alkaloid dauriporphine, were isolated from Menispermum dauricum roots cultured in a medium containing ketoconazole, a cytochrome P 450 inhibitor. Structures of the alkaloids were established by spectroscopic, crystallog. and chemical methods.
IT 88142-60-3, Dauriporphine
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence)
(isolation from Menispermum dauricum)
RN 88142-60-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 4,5,6,9-tetramethoxy- (CA INDEX NAME)



IT 259682-67-2P
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(isolation from Menispermum dauricum and crystal structure)
RN 259682-67-2 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-[[2-(4-hydroxyphenyl)ethyl]amino]-4,5,9-trimethoxy- (CA INDEX NAME)



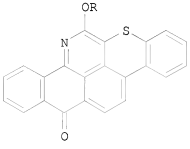
OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 32 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1999:683253 CAPLUS
DOCUMENT NUMBER: 131:300574
TITLE: Azathioxanthene dyes and their manufacture
INVENTOR(S): Teruta, Takashi; Murata, Yukichi
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

JP 11293134	A	19991026	JP 1998-93178	19980406
JP 3780693	B2	20060531		
PRIORITY APPLN. INFO.:			JP 1998-93178	19980406
OTHER SOURCE(S):	MARPAT 131:300574			

GI



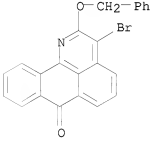
I

AB Azathioxanthene compound I (R = substituted alkyl), which is useful as fluorescent dye with high brightness and fastness, is synthesized by reacting 2-alkoxy-1-aza-3-bromobenzoanthrone with o-aminothiophenol in the presence of a base in an inert solvent followed by converting to the corresponding diazo compound and cyclization. Benzyloxy derivative of I was prepared and used as coloring agent for polymethyl methacrylate resin.

IT 245092-13-1 245092-14-2 245092-15-3
245092-16-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of azathioxanthene dyes)

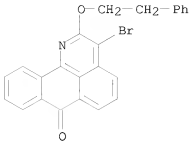
RN 245092-13-1 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-(phenylmethoxy)- (CA INDEX NAME)

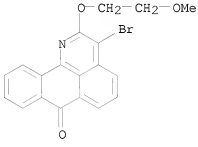


RN 245092-14-2 CAPLUS

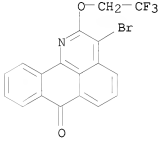
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-(2-phenylethoxy)- (CA INDEX NAME)



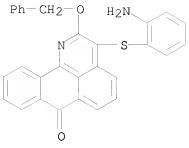
RN 245092-15-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-(2-methoxyethoxy)- (CA INDEX NAME)



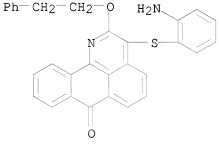
RN 245092-16-4 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-(2,2,2-trifluoroethoxy)- (CA INDEX NAME)



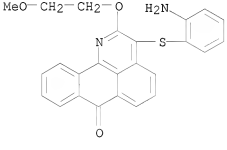
IT 247116-58-1P 247116-59-2P 247116-61-6P
247116-62-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of azathioxanthene dyes)
RN 247116-58-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-[(2-aminophenyl)thio]-2-(phenylmethoxy)- (CA INDEX NAME)



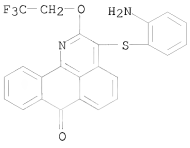
RN 247116-59-2 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-[(2-aminophenyl)thio]-2-(2-phenylethoxy)- (CA INDEX NAME)



RN 247116-61-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-[(2-aminophenyl)thio]-2-(2-methoxyethoxy)- (CA INDEX NAME)



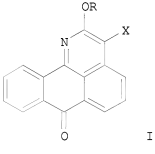
RN 247116-62-7 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-[(2-aminophenyl)thio]-2-(2,2,2-trifluoroethoxy)- (CA INDEX NAME)



L6 ANSWER 33 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1999:631222 CAPLUS
DOCUMENT NUMBER: 131:258447
TITLE: Dibenzoquinolinone dyes and manufacturing methods therefor
INVENTOR(S): Teruta, Takashi; Murata, Yukichi
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11269396	A	19991005	JP 1998-92191	19980323
JP 3769118	B2	20060419		
PRIORITY APPLN. INFO.:			JP 1998-92191	19980323
OTHER SOURCE(S):	MARPAT	131:258447		

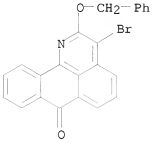
GI



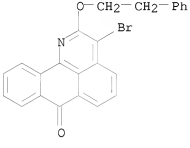
AB Yellow fluorescent dyes I are prepared, where R = substituted alkyl groups and X = H or halogens. Thus, I (R = benzyl, X = Br) was prepared, mixed (0.05 g) with 100 g Acrypet MD, pelletized, and injection molded to prepare a plate.

IT 245092-13-1P 245092-14-2P 245092-15-3P
245092-16-4P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(yellow fluorescent dibenzoquinolinone dyes and manufacturing methods therefor)

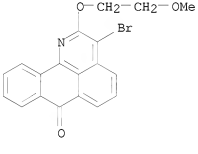
RN 245092-13-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-(phenylmethoxy)- (CA INDEX NAME)



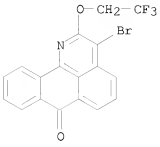
RN 245092-14-2 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-(2-phenylethoxy)- (CA INDEX NAME)



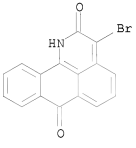
RN 245092-15-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-(2-methoxyethoxy)- (CA INDEX NAME)



RN 245092-16-4 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-(2,2,2-trifluoroethoxy)- (CA INDEX NAME)

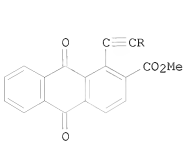


IT 31715-46-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(yellow fluorescent dibenzoquinolinone dyes and manufacturing methods therefor)
RN 31715-46-5 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 3-bromo- (CA INDEX NAME)

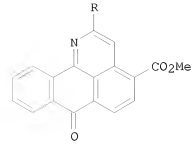


OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

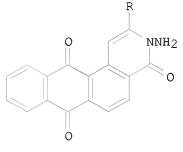
L6 ANSWER 34 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1999:65967 CAPLUS
DOCUMENT NUMBER: 130:182345
TITLE: Reactions of methyl 1-alkynyl-9,10-anthraquinone-2-carboxylates with hydrazine
AUTHOR(S): Ivanchikova, I. D.; Myasnikova, R. N.; Shvartsberg, M. S.
CORPORATE SOURCE: Institute Chemical Kinetics and Combustion, Siberian Branch Russian Academy Sciences, Novosibirsk, 630090, Russia
SOURCE: Russian Chemical Bulletin (Translation of Izvestiya Akademii Nauk, Seriya Khimicheskaya) (1998), 47(10), 1975-1979
CODEN: RCBUEY; ISSN: 1066-5285
PUBLISHER: Consultants Bureau
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I



II



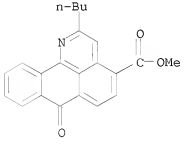
III

AB The title esters (I; R = Bu, Ph, CH2OPh, H) reacted with NH2NH2 in ethanol at 80° to give similar amts. of 7H-dibenzo[de,h]quinolin-7-ones (II) and 3,4-dihydro-3-aminonaphtho[2,3-f]isoquinoline-4,7,12-triones (III). The main route of the reaction apparently included nucleophilic addition of hydrazine to the triple bond of the ester, followed by intramol. cyclization of the adduct with either the carbonyl or the methoxycarbonyl groups involved.

IT 155269-12-8P 220632-10-0P 220632-11-1P
220632-12-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

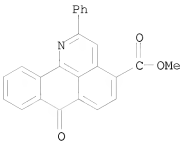
RN 155269-12-8 CAPLUS

CN 7H-Dibenzo[de,h]quinoline-4-carboxylic acid, 2-butyl-7-oxo-, methyl ester (CA INDEX NAME)

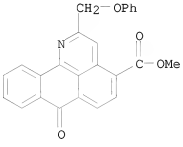


RN 220632-10-0 CAPLUS

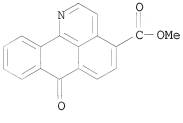
CN 7H-Dibenzo[de,h]quinoline-4-carboxylic acid, 7-oxo-2-phenyl-, methyl ester (CA INDEX NAME)



RN 220632-11-1 CAPLUS
CN 7H-Dibenzo[de,h]quinoline-4-carboxylic acid, 7-oxo-2-(phenoxymethyl)-, methyl ester (CA INDEX NAME)



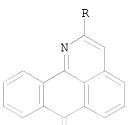
RN 220632-12-2 CAPLUS
CN 7H-Dibenzo[de,h]quinoline-4-carboxylic acid, 7-oxo-, methyl ester (CA INDEX NAME)



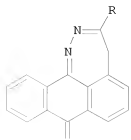
OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 35 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1999:65966 CAPLUS
DOCUMENT NUMBER: 130:182344
TITLE: A novel heterocyclization of 1-alkynyl-9,10-anthraquinones
AUTHOR(S): Shvartsberg, M. S.; Ivanchikova, I. D.; Vasilevsky, S. F.
CORPORATE SOURCE: Inst. Chemical Kinetics and Combustion, Siberian Branch Russian Academy Sciences, Novosibirsk, 630090, Russia

SOURCE: Russian Chemical Bulletin (Translation of Izvestiya Akademii Nauk, Seriya Khimicheskaya) (1998), 47(10), 1971-1974
CODEN: RCBUEY; ISSN: 1066-5285
PUBLISHER: Consultants Bureau
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I



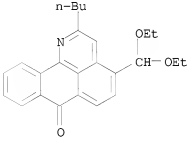
II

AB 1-Alkynyl-9,10-anthraquinones react with an excess of NH2NH2 at 80-115° to give a mixture of 7H-dibenzo[de,h]quinolin-7-ones (I; R = Bu, Ph, CH2OPh) and anthra[9,1-cd]-1,2-diazepin-8-ones (II, same R). II undergo reductive contraction of the seven-membered ring to give I. Bulky substituents in position 2 of the initial alkynylanthraquinones prevent the formation of the seven-membered heterocycle. A scheme of the cyclocondensation was proposed.

IT 155269-13-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(heterocyclization of 1-alkynyl-9,10-anthraquinones)

RN 155269-13-9 CAPLUS

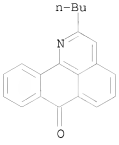
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-butyl-4-(diethoxymethyl)- (CA INDEX NAME)



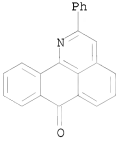
IT 155269-09-3P 155269-10-6P 155269-11-7P
220597-83-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(heterocyclization of 1-alkynyl-9,10-anthraquinones)

RN 155269-09-3 CAPLUS

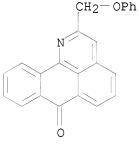
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-butyl- (CA INDEX NAME)



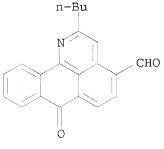
RN 155269-10-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-phenyl- (CA INDEX NAME)



RN 155269-11-7 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-(phenoxymethyl)- (CA INDEX NAME)



RN 220597-83-1 CAPLUS
CN 7H-Dibenzo[de,h]quinoline-4-carboxaldehyde, 2-butyl-7-oxo- (CA INDEX NAME)

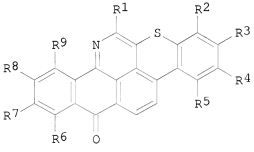


OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 36 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1998:685334 CAPLUS
DOCUMENT NUMBER: 129:337482
ORIGINAL REFERENCE NO.: 129:68653a,68656a
TITLE: Organic electroluminescent device containing azabenzothioxanthene derivative
INVENTOR(S): Ogata, Tomoyuki; Sato, Yoshiharu; Murata, Yukichi
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10284251	A	19981023	JP 1997-88172	19970407
JP 3760556	B2	20060329		
PRIORITY APPLN. INFO.:			JP 1997-88172	19970407

OTHER SOURCE(S): MARPAT 129:337482
GI

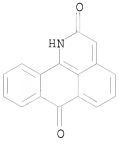


I

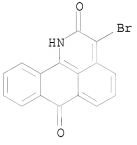
AB In the device, a hole-transporting layer and/or an electron-transporting layer contain a azabenzothioxanthene derivative I (R1-9 = H, halo, CN, NO2, OH, CO2H, alkyl, cycloalkyl, aralkyl, alkenyl, amino, amido, alkoxy, cycloalkyloxy, alkoxycarbonyl, aromatic hydrocarbyl, heterocyclic group; R1-9 may be substituted). The device showed high luminescent efficiency at visible light region.

IT 31293-07-9P, 1H-Dibenzo[de,h]quinoline-2,7-dione
31715-46-5P 31715-47-6P 214628-45-2P
214628-46-3P 214628-47-4P
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(electroluminescent device containing azabenzothioxanthene derivative dopant)

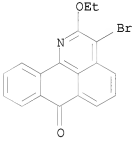
RN 31293-07-9 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione (CA INDEX NAME)



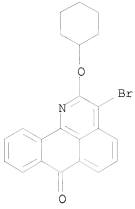
RN 31715-46-5 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 3-bromo- (CA INDEX NAME)



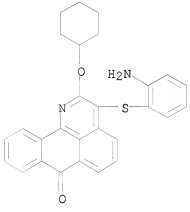
RN 31715-47-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-ethoxy- (CA INDEX NAME)



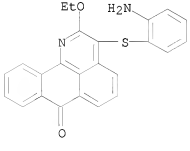
RN 214628-45-2 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-(cyclohexyloxy)- (CA INDEX NAME)



RN 214628-46-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-[(2-aminophenyl)thio]-2-(cyclohexyloxy)- (CA INDEX NAME)

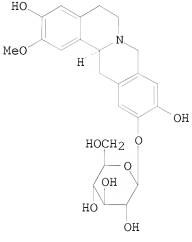


RN 214628-47-4 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-[(2-aminophenyl)thio]-2-ethoxy- (CA INDEX NAME)



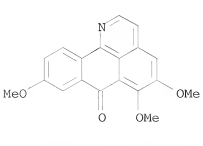
L6 ANSWER 37 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1994:405069 CAPLUS

DOCUMENT NUMBER: 121:5069
ORIGINAL REFERENCE NO.: 121:1119a,1122a
TITLE: Dauricoside, a new glycosidal alkaloid having an inhibitory activity against blood-platelet aggregation
AUTHOR(S): Hu, Shumin; Xu, Suixu; Yao, Xinsheng; Cui, Cheng Bin; Tezuka, Yasuhiro; Kikuchi, Tohru
CORPORATE SOURCE: Shenyang Coll. Pharm., Shenyang, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1993), 41(10), 1866-8
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

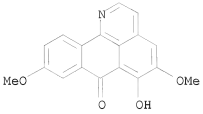


I

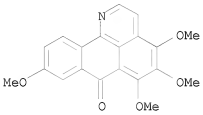
AB Dauricoside (I), a new glycosidal alkaloid, was isolated from the rhizomes of Menispermum dauricum DC. along with dauricine (2), daurisoline (3), dauriporphine (4), menisoporphine (5), and 6-O-demethylmenisporphine (6), and its structure was determined by means of spectroscopic methods. Compds. I, 2, and 3 inhibited blood-platelet aggregation induced by ADP (ADP).
IT 83287-02-9 83287-03-0 88142-60-3,
Dauriporphine
RL: BIOL (Biological study)
(from Menispermum dauricum rhizomes)
RN 83287-02-9 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5,6,9-trimethoxy- (CA INDEX NAME)



RN 83287-03-0 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-hydroxy-5,9-dimethoxy- (CA INDEX NAME)

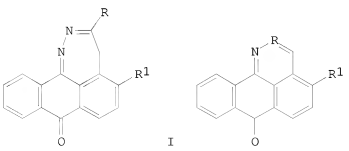


RN 88142-60-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 4,5,6,9-tetramethoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 19 THERE ARE 19 CAPLUS RECORDS THAT CITE THIS RECORD (20 CITINGS)

L6 ANSWER 38 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1994:323547 CAPLUS
DOCUMENT NUMBER: 120:323547
ORIGINAL REFERENCE NO.: 120:56929a,56932a
TITLE: Acetylenic compounds as intermediates in heterocyclic synthesis: reaction of 1-acetylenylanthraquinones with hydrazine
AUTHOR(S): Shvartsberg, Mark S.; Ivanchikova, Irena D.; Vasilevsky, Sergei F.
CORPORATE SOURCE: Inst. Chem. Kinet. Combust., Novosibirsk, 630090, Russia
SOURCE: Tetrahedron Letters (1994), 35(13), 2077-80
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 120:323547
GI

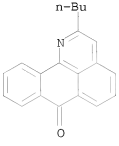


I II

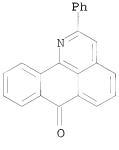
AB Reaction of 1-acetylenic derivs. of anthraquinone with hydrazine affording substituted 4H-anthra[9,1-cd]-1,2-diazepin-8-ones I [R = alkyl, phenyl; R1 = H, CO2Me, CH(OEt)2]and 7H-dibenzo[de,h]quinolin-7-ones II (same R, R1) is reported.

IT 155269-09-3P 155269-10-6P 155269-11-7P
155269-12-8P 155269-13-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

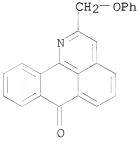
RN 155269-09-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-butyl- (CA INDEX NAME)



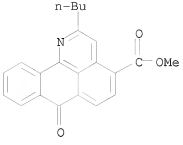
RN 155269-10-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-phenyl- (CA INDEX NAME)



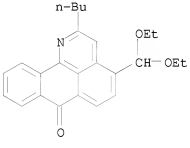
RN 155269-11-7 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-(phenoxymethyl)- (CA INDEX NAME)



RN 155269-12-8 CAPLUS
CN 7H-Dibenzo[de,h]quinoline-4-carboxylic acid, 2-butyl-7-oxo-, methyl ester (CA INDEX NAME)

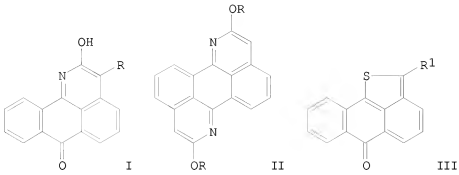


RN 155269-13-9 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-butyl-4-(diethoxymethyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)

L6 ANSWER 39 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1994:77195 CAPLUS
DOCUMENT NUMBER: 120:77195
ORIGINAL REFERENCE NO.: 120:13888h,13889a
TITLE: Reaction of α-halo- and α-nitroanthraquinones with anions of CH acids. II. Peri-cyclization in reactions with nitriles
AUTHOR(S): Gorelik, M. V.; Titova, S. P.; Kanor, M. A.
CORPORATE SOURCE: Nauchno-Issled. Inst. Org. Poluprod. Krasitelei, Moscow, Russia
SOURCE: Zhurnal Organicheskoi Khimii (1992), 28(11), 2301-9
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI

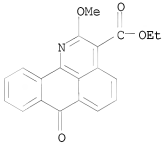


AB 1-Cyanomethylanthraquinones, obtained from 1-halo- or 1-nitroanthraquinones and EtO2CCH2CN and PhCH2CN, are transformed to 3-substituted 2-hydroxy-7H-dibenzo[de,h]quinoline-7-ones I (R = Me, Et) as a result of hydrolysis of the nitrile group and cyclization. The novel anthra[9,1-bc:10,5-b'c']dipyridines II are obtained from 1,5-bis(cyanomethyl)anthraquinones. Reaction of 1-halo- or 1-nitroanthraquinone with excess CH2(CN)2 and EtO2CCH2CN in polar aprotic solvents containing KOH gives high yields of 2-amino-1,3-dicyano- and 2-amino-1,3-bis (ethoxycarbonyl)benzanthrone. Reaction of 1-cyanomethylanthraquinones with H2S leads to 2-substituted-6H-anthra[9,1-bc]thiophen-6-ones III (R1 = CO2Et, Ph), as a result, probably, of closing the thiopyran ring and recyclization.

IT 152027-96-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)

RN 152027-96-8 CAPLUS

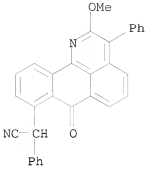
CN 7H-Dibenzo[de,h]quinoline-3-carboxylic acid, 2-methoxy-7-oxo-, ethyl ester (CA INDEX NAME)



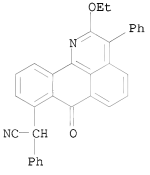
IT 152028-02-9P 152028-04-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)

RN 152028-02-9 CAPLUS

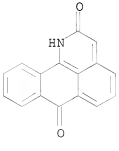
CN 7H-Dibenzo[de,h]quinoline-8-acetonitrile, 2-methoxy-7-oxo-α,3-diphenyl- (CA INDEX NAME)



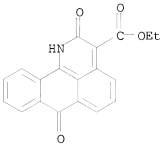
RN 152028-04-1 CAPLUS
CN 7H-Dibenzo[de,h]quinoline-8-acetonitrile, 2-ethoxy-7-oxo-α,3-diphenyl- (CA INDEX NAME)



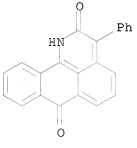
IT 31293-07-9P, 1H-Dibenzo[de,h]quinoline-2,7-dione
120346-99-8P 120347-00-4P 152027-89-9P
152027-90-2P 152027-91-3P 152028-05-2P
152028-06-3P 152028-09-6P 152028-10-9P
152028-11-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 31293-07-9 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione (CA INDEX NAME)



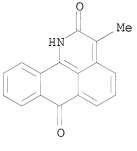
RN 120346-99-8 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-3-carboxylic acid, 2,7-dihydro-2,7-dioxo-, ethyl ester (CA INDEX NAME)



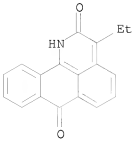
RN 120347-00-4 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 3-phenyl- (CA INDEX NAME)



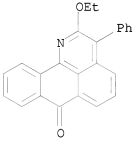
RN 152027-89-9 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 3-methyl- (CA INDEX NAME)



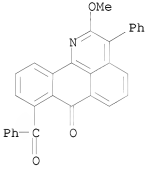
RN 152027-90-2 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 3-ethyl- (CA INDEX NAME)



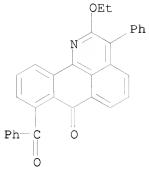
RN 152027-91-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-ethoxy-3-phenyl- (CA INDEX NAME)



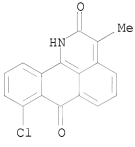
RN 152028-05-2 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 8-benzoyl-2-methoxy-3-phenyl- (CA INDEX NAME)



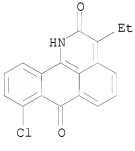
RN 152028-06-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 8-benzoyl-2-ethoxy-3-phenyl- (CA INDEX NAME)



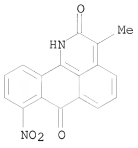
RN 152028-09-6 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 8-chloro-3-methyl- (CA INDEX NAME)



RN 152028-10-9 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 8-chloro-3-ethyl- (CA INDEX NAME)

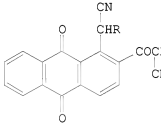


RN 152028-11-0 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 3-methyl-8-nitro- (CA INDEX NAME)

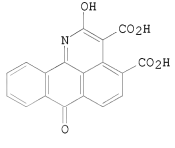


OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

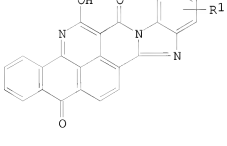
L6 ANSWER 40 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1994:30718 CAPLUS
DOCUMENT NUMBER: 120:30718
ORIGINAL REFERENCE NO.: 120:5801a,5804a
TITLE: Reaction of α-halo- and α-nitroanthraquinones with CH-acid anions. IV. Reaction of 1-nitroanthraquinone-2-carboxylic acid with ethyl cyanoacetate and malononitrile
AUTHOR(S): Gorelik, M. V.; Lomzakova, V. I.
CORPORATE SOURCE: Nauchno-Issled. Inst. Org. Poluprod Krasitelei, Moscow, Russia
SOURCE: Zhurnal Organicheskoi Khimii (1992), 28(12), 2541-4
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 120:30718
GI



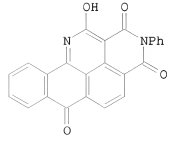
I



II



III



IV

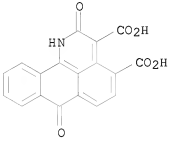
AB The title reaction in DMSO containing KOH at 80° gave 60-90% adducts I

(R = CO2Et, cyano, resp.), which cyclized in concentrated H2SO4 at 75% to give 93-98% dibenzoquinolinonedicarboxylic acid II. II underwent cyclocondensation reaction with 3,4-(H2N)2C6H3R1 (R1 = H, Me, Cl) to give heptacyclic products III (same R1) and with PhNH2 to give 79% phenylimide IV. IV was also prepared in 96% yield directly from the anilide of the title acid and NCCH2CO2Et in DMSO containing KOH at 50°.

IT 151509-18-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclocondensation reactions of, with phenylenediamines and with aniline)

RN 151509-18-1 CAPLUS

CN 1H-Dibenzo[de,hj]quinoline-3,4-dicarboxylic acid, 2,7-dihydro-2,7-dioxo- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L6 ANSWER 41 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1992:567656 CAPLUS

DOCUMENT NUMBER: 117:167656

ORIGINAL REFERENCE NO.: 117:28895a,28898a

TITLE: Minor alkaloids of Sinomenium acutum (Thunb.) Rehd. et Wils

AUTHOR(S): Chen, Yayan; Qiu, Cuichang; Shen, Li; Gao, Congyuan; Qiao, Liang; Wang, Dong

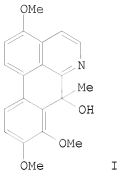
CORPORATE SOURCE: Dep. Phytochem., Beijing Med. Univ., Beijing, Peop. Rep. China

SOURCE: Beijing Yike Daxue Xuebao (1991), 23(3), 235-7
CODEN: BYDXEV; ISSN: 1000-1530

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

GI



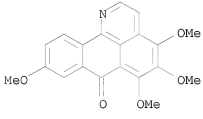
I

AB Four minor alkaloids were isolated from the rhizome of Sinomenium acutum (Thun b.) Rehd. et Wils. Three of them were identified as 8,14-dihydrosalutaridine, stepharanine and bianfugenine. The fourth is a new alkaloid, and named sinomendine (I). Its structure was 3,8,9-trimethoxy-7-hydroxy-7-methylaporphine.

IT 88142-60-3, Bianfugenine
RL: BIOL (Biological study)
(from Sinomenium acutum rhizome)

RN 88142-60-3 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one, 4,5,6,9-tetramethoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

L6 ANSWER 42 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1991:6266 CAPLUS

DOCUMENT NUMBER: 114:6266

ORIGINAL REFERENCE NO.: 114:1231a,1234a

TITLE: Manganese(III) acetate-induced formation of a fused, chloro-substituted β-lactam derivative from a chloroacetamide

AUTHOR(S): Bremner, John B.; Jaturonrusmee, Wasna

CORPORATE SOURCE: Dep. Chem., Univ. Tasmania, Hobart, 7001, Australia

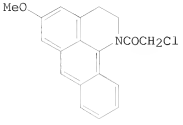
SOURCE: Australian Journal of Chemistry (1990), 43(8), 1461-7
CODEN: AJCHAS; ISSN: 0004-9425

DOCUMENT TYPE: Journal

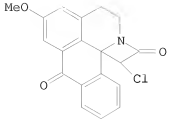
LANGUAGE: English

OTHER SOURCE(S): CASREACT 114:6266

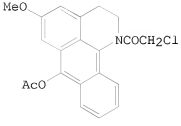
GI



I



II



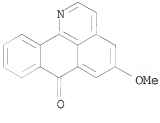
V

AB Reaction of 1-chloroacetyl-5-methoxy-2,3-dihydro-1H-dibenzo[de,h]quinoline I with Mn(OAc)3 in acetic acid at 50° gave the novel fused spiro derivative 11-chloro-4-methoxy-1,2-dihydro-6H-azeto[2,1-j]dibenzo[de,h]quinoline-6,12(11H)-dione (II) in 21% yield, together with 5-methoxy-7H-dibenzo[de,h]quinolin-7-one (III), 5-methoxy-2,3-dihydro-7H-dibenzo[de,h]quinolin-7-one (IV), and 1-chloroacetyl-5-methoxy-2,3-dihydro-1H-dibenzo[de,h]quinolin-7-y] ethanoate V in 1, 3 and 44% yield resp. V is shown to be a precursor of II, III and IV.

IT 28399-74-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 28399-74-8 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one, 5-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L6 ANSWER 43 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1991:5743 CAPLUS

DOCUMENT NUMBER: 114:5743

ORIGINAL REFERENCE NO.: 114:1135a

TITLE: Structure determination by MS, NMR, and UV spectra of bromo and nitro derivatives of 1-azabenzanthrone

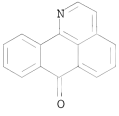
AUTHOR(S): Ueda, Toyotoshi; Abliz, Zeper; Sato, Munehiro; Nishimura, Manabu; Iwashima, Satoshi; Aoki, Junji; Kan, Teruo; Matsunaga, Shunyo; Tanaka, Reiko

CORPORATE SOURCE: Dep. Chem., Meisei Univ., Tokyo, 191, Japan
SOURCE: Journal of Molecular Structure (1990), 224, 313-22
CODEN: JMOSB4; ISSN: 0022-2860
DOCUMENT TYPE: Journal
LANGUAGE: English

AB 3-Bromo-1-azabenzanthrone and 9-nitro-1-azabenzanthrone were identified by their mass, 1H (H-H COSY) and 13C (ADEPT) NMR, and UV spectra. The position of the nitro group was confirmed by mass and UV spectra of 9-nitro-1-azabenzanthrone derivs.: two isomers of pyridino-1-azabenzanthrones. Solvent effects on electrophilic reactions of azaobenzanthrone were discussed.

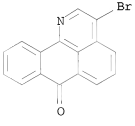
IT 65543-67-1, 1-Azabenzanthrone
RL: RCT (Reactant); RACT (Reactant or reagent)
(electrophilic substitution reactions of, solvent effects on)

RN 65543-67-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)

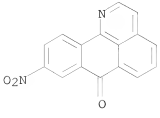


IT 57669-37-1, 3-Bromo-1-azabenzanthrone 131023-51-3, 9-Nitro-1-azabenzanthrone
RL: PRP (Properties)
(mol. structure and spectra of)

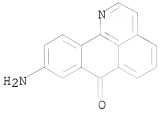
RN 57669-37-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo- (CA INDEX NAME)



RN 131023-51-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 9-nitro- (CA INDEX NAME)

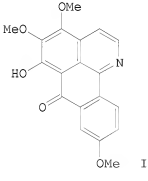


IT 131023-54-6P, 9-Amino-1-azabenzanthrone
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and Skraup reaction of)
RN 131023-54-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 9-amino- (CA INDEX NAME)



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

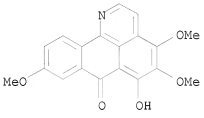
L6 ANSWER 44 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1990:455823 CAPLUS
DOCUMENT NUMBER: 113:55823
ORIGINAL REFERENCE NO.: 113:9377a,9380a
TITLE: A novel oxoisoaporphine alkaloid from the rhizome of Menispermum dauricum
AUTHOR(S): Zhao, Shouxun; Ye, Wencai; Tan, Ninghua; Zhao, Haoru; Xia, Zuncheng
CORPORATE SOURCE: Dep. Phytochem., China Pharm. Univ., Nanjing, Peop. Rep. China
SOURCE: Zhongguo Yaoke Daxue Xuebao (1989), 20(5), 312
CODEN: ZHYXE9; ISSN: 1000-5048
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

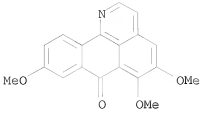
AB A new oxoisoaporphine alkaloid (I) was isolated from the rhizome of M. dauricum (Menispermaceae). Its structure was 6-hydroxy-4,5,9-trimethoxy-7H-dibenzene[de,h]-quinoline-7-one. It is named dauriporphinoline.
IT 100009-82-3, Dauriporphinoline
RL: BIOL (Biological study)
(from Menispermum dauricum rhizome)

RN 100009-82-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-hydroxy-4,5,9-trimethoxy- (CA INDEX NAME)

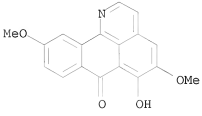


OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

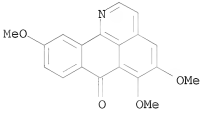
L6 ANSWER 45 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1990:454063 CAPLUS
DOCUMENT NUMBER: 113:54063
ORIGINAL REFERENCE NO.: 113:9041a,9044a
TITLE: Mutagenicity of isoquinoline alkaloids, especially of the aporphine type
AUTHOR(S): Nozaka, Tomio; Watanabe, Fujio; Tadaki, Shinichi; Ishino, Masazo; Morimoto, Isao; Kunitomo, Junichi; Ishii, Hisashi; Natori, Shinsaku
CORPORATE SOURCE: Saitama Inst. Public Health, Urawa, 338, Japan
SOURCE: Mutation Research, Genetic Toxicology Testing (1990), 240(4), 267-79
CODEN: MRGTE4; ISSN: 0165-1218
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The mutagenicity of 44 isoquinoline alkaloids was tested in Salmonella typhimurium TA100 and TA98 in the presence or absence of S9 mix. The alkaloids tested included compds. from the isoquinoline, benzylisoquinoline, bisbenzylisoquinoline, monoterpene isoquinoline, berberine, morphinane, hasubanan, benzo[c]phenanthridine, and aporphine groups. Among the alkaloids tested, liriodenine was the most potent mutagen for TA100 and roemerine was the most potent for TA98. A clear structure-mutagenicity relation was observed in a series of aporphine alkaloids (aporphine, dehydroaporphine, 7-oxoaporphine, and 4,5-dioxoaporphine), and 10,11-nonsubstituted aporphines were suggested to exert their mutagenicity through metabolic activation of the 10,11 positions, possibly as the 10,11-epoxides.
IT 83287-02-9, Menisporphine 88741-67-7
88741-68-8 96681-50-4, Bianfugecine
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
(mutagenicity of, in Salmonella typhimurium)
RN 83287-02-9 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5,6,9-trimethoxy- (CA INDEX NAME)



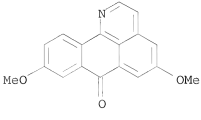
RN 88741-67-7 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-hydroxy-5,10-dimethoxy- (CA INDEX NAME)



RN 88741-68-8 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5,6,10-trimethoxy- (CA INDEX NAME)



RN 96681-50-4 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5,9-dimethoxy- (CA INDEX NAME)



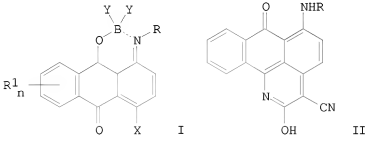
OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

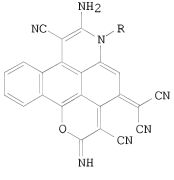
L6 ANSWER 46 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1990:442466 CAPLUS
DOCUMENT NUMBER: 113:42466
ORIGINAL REFERENCE NO.: 113:7225a,7228a

TITLE: Boron-aminoanthraquinone complexes, their preparation, and their use as intermediates for preparing dyes
INVENTOR(S): Adam, Jean Marie
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Ger. Offen., 12 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
DE 3902686	A1	19890817	DE 1989-3902686		19890130
CH 676240	A5	19901228	CH 1988-406		19880205
PRIORITY APPLN. INFO.:			CH 1988-406	A	19880205

OTHER SOURCE(S): MARPAT 113:42466
GI



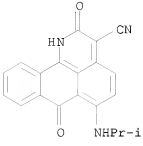


AB The title complexes I [R = H, (un)substituted C1-8 alkyl, (un)substituted Ph; R1 = substituent; X = H, halogen; Y = OAc, OSO3H; n = 0-2], are prepared and react with malononitrile to form disperse dyes II [from I (X = H)] and III [from I (X = halogen)], are prepared 1-(Isopropylamino)anthraquinone reacted with BF3 Et etherate, producing I (R = iso-Pr, R1 = X = H, Y = F, n = 1), which reacted with malononitrile, producing blue II; (R = iso-Pr).

IT 125091-18-1P
RL: PREP (Preparation)
(manufacture of, as blue disperse dye)

RN 125091-18-1 CAPLUS

CN 1H-Dibenzo[de,h]quinoline-3-carbonitrile, 2,7-dihydro-6-[(1-methylethyl)amino]-2,7-dioxo- (CA INDEX NAME)



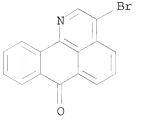
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L6 ANSWER 47 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1990:207151 CAPLUS
DOCUMENT NUMBER: 112:207151
ORIGINAL REFERENCE NO.: 112:34835a,34838a
TITLE: Mechanism of ionization and initial fragmentation in electron-impact mass spectroscopy. Mass spectra of benzanthrones
AUTHOR(S): Ueda, Toyotoshi; Abliz, Zeper
CORPORATE SOURCE: Sci. Eng. Coll., Meisei Univ., Tokyo, Japan
SOURCE: Research Bulletin of Meisei University, Physical Sciences and Engineering (1989), 25, 39-57
CODEN: MDKRDL; ISSN: 0388-130X
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

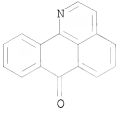
AB Electron-impact mass spectra were measured for 8 benzanthrone derivs.: benz[de]anthrone, 1-azabezanthrone, 8-azabenzathrone, 3-chlorobenzathrone, 3-bromobenzathrone, 3-iodobenzathrone, 3-bromo-1-azabenzathrone, and 3-bromo-8-azabenzathrone. Ionization efficiency curves and apparent appearance energies were obtained for mol. ions and typical fragment ions. Two reaction routes were observed for 3-halogenobenzanthrone in the fragmentation process from mol. ions [M]i+ to [M-CO-X]i+ ions. Strong electrostatic repulsion between localized charges was recognized in doubly charged ions of 8-azabenzanthrone. From these observations, feasible expulsion of nonbonding electrons on different heteroatoms is proposed as an ionization model in the electron-impact experiment

IT 57669-37-1, 3-Bromo-1-azabenzanthrone 65543-67-1, 1-Azabenzanthrone
RL: PRP (Properties)
(electron-impact mass spectra of, ionization and initial fragmentation mechanisms in)

RN 57669-37-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo- (CA INDEX NAME)



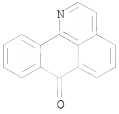
RN 65543-67-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



L6 ANSWER 48 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1989:553751 CAPLUS
Correction of: 1987:196400
DOCUMENT NUMBER: 111:153751
Correction of: 106:196400
ORIGINAL REFERENCE NO.: 111:25641a,25644a
TITLE: Preparation of violanthrene N-isologs from 1-azabenz[de]anthrone
AUTHOR(S): Iwashima, Satoshi; Honda, Hitoshi
CORPORATE SOURCE: Coll. Sci. Tech., Meisei Univ., Tokyo, Japan
SOURCE: Research Bulletin of Meisei University, Physical Sciences and Engineering (1985), 21, 31-44
CODEN: MDKRDL; ISSN: 0388-130X
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
OTHER SOURCE(S): CASREACT 111:153751
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

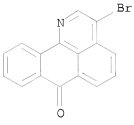
AB 1-Azabenz[de]anthrone I (R = H, X = N) was prepared from phthalic anhydride and H2NCH2CH2Ph. I underwent autocondensation, by a Zn-catalyzed or alkali fusion process. The Zn-catalyzed condensation products were diazatetrabenzoperylene II, diazabenzophenanthropentaphene III, diazadibenzonaphthopentaphene IV (the major component) and diazabenzophenalenopentaphene V. The reduced products after alkali-fusion condensation of I (R = H, X = N) were II, IV, V, and diazadinaphthoperylene VI, the major component. The self-condensation of benzanthrone I (R = H, X = CH) using Zn catalyzed redn gave terabenzoperylene II, benzophenanthropentaphene III (the major product), and dibenzonaphthopentaphene IV; whereas the alkali fusion method gave dinaphthoperylene VI, and violanthrene (VII), the major product. Similarly, I (R = Br, X = CH) on Zn-catalyzed redn gave II, III, and IV, the major product, whereas alkali fusion yielded III, VI (the major product), and VII.
IT 65543-67-1P, 7H-Dibenzo[de,h]quinolin-7-one
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, and self condensation of)
RN 65543-67-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



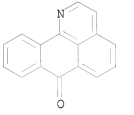
L6 ANSWER 49 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1989:430778 CAPLUS
DOCUMENT NUMBER: 111:30778
ORIGINAL REFERENCE NO.: 111:5157a,5160a
TITLE: Electrostatic repulsion between localized charges on hetero-atoms in a doubly charged ion and mechanism of ionization and fragmentation. Electron impact mass spectra of benzanthrone, 1-azabenzanthrone, 8-azabenzanthrone and their 3-bromo substituents
AUTHOR(S): Ueda, Toyotoshi; Abliz, Zeper; Iwashima, Satoshi; Aoki, Junji; Kan, Teruo
CORPORATE SOURCE: Dep. Chem., Meisei Univ., Hino, 191, Japan
SOURCE: International Journal of Mass Spectrometry and Ion Processes (1989), 88(2-3), 175-96
CODEN: IJMPDN; ISSN: 0168-1176
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Electron impact mass spectra and ionization efficiency curves of fragment ions were taken for benzanthrone, 1-azabenzanthrone, 8-azabenzathrone, 3-bromobenzanthrone, 3-bromo-1-azabenzanthrone, and 3-bromo-8-azabenzanthrone. The main fragmentation reactions were the elimination of CO and subsequently of HCN from the mol. ion Mi+ (i = 1,2) based on the observation of metastable ions and the value of appearance energies of fragment ions. The intensity of a doubly charged ion [M-CO-HCN (or C2H2 in benzanthrone)]2+ compared with an ion (M-CO)2+ is strong for 8-azabenzathrones, intermediate for 1-azabenzanthrones, and weak for benzanthrones. Possibly pos. charges are localized on O, N, or other heteroatoms immediately after the formation of a doubly charged mol. ion; they exclude each other because of strong repulsion at short distances; and this repulsive force promotes the above fragmentation. Approx. values of the 1st and 2nd ionization potentials were interpreted from the easily achieved emission of non-bonding electrons from heteroatoms in the outer surface of mols., which is correlated with the results of Mo calcns.

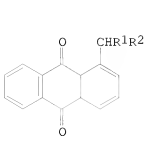
IT 57669-37-1, 3-Bromo-1-azabenzanthrone 65543-67-1, 1-Azabenzanthrone
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(mass spectra of)
RN 57669-37-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo- (CA INDEX NAME)



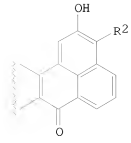
RN 65543-67-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



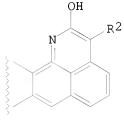
L6 ANSWER 50 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1989:192410 CAPLUS
DOCUMENT NUMBER: 110:192410
ORIGINAL REFERENCE NO.: 110:31925a,31928a
TITLE: Nucleophilic α-alkylation of anthraquinones. New synthesis of derivatives of benzanthrone and 1-azabenzanthrone
AUTHOR(S): Gorelik, M. V.; Titova, S. P.; Kanor, M. A.
CORPORATE SOURCE: Nauchno-Issled. Inst. Org. Poluprod Krasitelei, Moscow, USSR
SOURCE: Zhurnal Organicheskoi Khimii (1988), 24(8), 1786-7
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 110:192410
GI



I



II



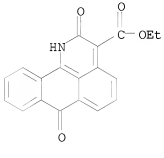
III

AB Anthraquinones I (R1 = CN, R2 = CO2Et, Ph; R1 = R2 = CO2Et) were prepared in 72-88% yields by treating 1-chloro, 1-nitro-, or 1-iodoanthraquinones with R1CH2R2 in DMSO. When R1 = Ac the benzanthrone derivs. II (R2 = Ac) were formed. Hydrolytic decarboxylation of I (R1 = CN, R2 = CO2Et, Ph) by H2SO4 gave 80 and 90% azabenzanthrones III (R2 = CO2Et, Ph).

IT 120346-99-8P 120347-00-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

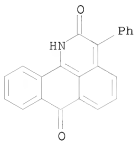
RN 120346-99-8 CAPLUS

CN 1H-Dibenzo[de,h]quinoline-3-carboxylic acid, 2,7-dihydro-2,7-dioxo-, ethyl ester (CA INDEX NAME)



RN 120347-00-4 CAPLUS

CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 3-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L6 ANSWER 51 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1987:196400 CAPLUS
DOCUMENT NUMBER: 106:196400
ORIGINAL REFERENCE NO.: 106:31841a,31844a
TITLE: Preparation of violanthrene N-isologs from 1-azabenz[de]anthrone
AUTHOR(S): Iwashima, Satoshi; Honda, Hitoshi
CORPORATE SOURCE: Coll. Sci. Tech., Meisei Univ., Tokyo, Japan
SOURCE: Research Bulletin of Meisei University, Physical Sciences and Engineering (1985), 21, 31-44
CODEN: MDKRDL; ISSN: 0388-130X
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
GI

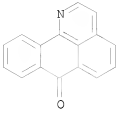
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB 1-Azabenzdeanthrone I (R = H, X = N) was prepared from phthalic anhydride and H2NCH2CH2Ph. I underwent autocondensation, by a Zn-catalyzed or alkali fusion process. The Zn-catalyzed condensation products were diazatetrabenzoperylene II, diazabenzophenanthropentaphene III, diazadibenzonaphthopentaphene IV (the major component) and diazabenzophenalenopentaphene V. The reduced products after alkali-fusion condensation of I(R = H, X = N) were II, IV, V, and diazadinaphthoperylene VI, the major component. The self-condensation of benzanthrone I (R = H, X = CH) using Zn catalyzed redn gave tetrabenzoperylene II, benzophenanthropentaphene III (the major product), and dibenzonaphthopentaphene IV; whereas the alkali fusion method gave dinaphthoperylene VI, and violanthrene (VII), the major product. Similarly, I (R = Br, X = CH) on Zn- catalyzed redn gave II, III, and IV, the major product, whereas alkali fusion yielded III, VI (the major product), and VII.

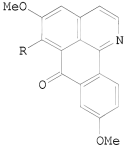
IT 65543-67-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, and self condensation of)

RN 65543-67-1 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)

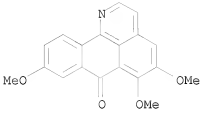


L6 ANSWER 52 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1987:67542 CAPLUS
DOCUMENT NUMBER: 106:67542
ORIGINAL REFERENCE NO.: 106:11119a,11122a
TITLE: Studies on the alkaloids of Menispermaceous plants. Part 286. Alkaloids of Menispermum dauricum DC. (11). Further evidence for the structure of bianfugecine
AUTHOR(S): Kunitomo, Junichi; Miyata, Yohko
CORPORATE SOURCE: Fac. Pharm. Sci., Mukogawa Women's Univ., Nishinomiya, 663, Japan
SOURCE: Heterocycles (1986), 24(2), 437-40
CODEN: HTCYAM; ISSN: 0385-5414
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 106:67542
GI

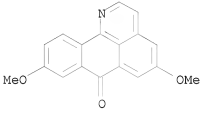


I

AB The structure of bianfugecine was unequivocally represented by formula I (R = H) by chemical correlation with structurally established menisporphine (I, R = MeO).
IT 83287-02-9, Menisporphine
RL: RCT (Reactant); RACT (Reactant or reagent)
(catalytic hydrogenation of)
RN 83287-02-9 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5,6,9-trimethoxy- (CA INDEX NAME)

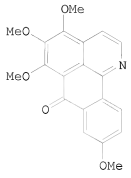


IT 96681-50-4P, Bianfugecine
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, by hydrogenolysis of menisporphine, structure of)
RN 96681-50-4 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5,9-dimethoxy- (CA INDEX NAME)

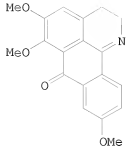


OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L6 ANSWER 53 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1986:69042 CAPLUS
DOCUMENT NUMBER: 104:69042
ORIGINAL REFERENCE NO.: 104:11064h,11065a
TITLE: The structure of 2,3-dihydromenisporphine and the synthesis of dauriporphine, oxoisoaporphine alkaloids from Menispermum dauricum DC
AUTHOR(S): Kunitomo, Jun Ichi; Kaede, Sayuri; Satoh, Miyoko
CORPORATE SOURCE: Fac. Pharm. Sci., Mukogawa Women's Univ., Nishinomiya, 663, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1985), 33(7), 2778-82
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 104:69042
GI



I



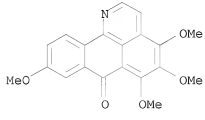
II

AB Two structurally unidentified alkaloids (tentatively named bases III and IV), isolated from Menispermum dauricum DC. (Menispermaceae), were found to be dauriporphine (I), a known oxoisoaporphine-type alkaloid, and 2,3-dihydromenisporphine (II), a new alkaloid of the same type, resp. The structure of dauriporphine was confirmed by synthesis of 4,5,6,9-tetramethoxy-7H-dibenzo[de,h]quinolin-7-one (I).

IT 88142-60-3P
RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(from Menispermum dauricum, structure and synthesis of)

RN 88142-60-3 CAPLUS

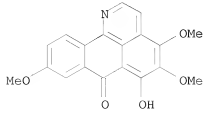
CN 7H-Dibenzo[de,h]quinolin-7-one, 4,5,6,9-tetramethoxy- (CA INDEX NAME)



IT 100009-82-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and methylation of)

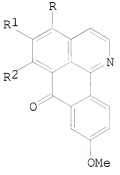
RN 100009-82-3 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one, 6-hydroxy-4,5,9-trimethoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)

L6 ANSWER 54 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1985:403691 CAPLUS
DOCUMENT NUMBER: 103:3691
ORIGINAL REFERENCE NO.: 103:679a,682a
TITLE: Studies on chemical constituents of Menispermum dauricum DC
AUTHOR(S): Hou, Cuiying; Xue, Hong
CORPORATE SOURCE: Inst. Mater. Med., Chin. Acad. Med. Sci., Beijing, Peop. Rep. China
SOURCE: Yaoxue Xuebao (1985), 20(2), 112-17
CODEN: YHHPAL; ISSN: 0513-4870
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
GI

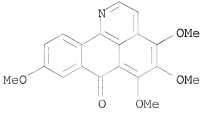


I, R=R^2=H, R^1=MeO
II, R=H, R^1R^2= —OCH$_2$O—
III, R=R^1=R^2=MeO

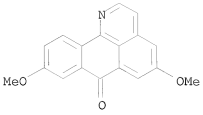
AB Three new oxoisoaporphine alkaloids were isolated from the ethanolic extract of the M. dauricum rhizome. The structures of the alkaloids were elucidated as 5,9-dimethoxy-7H-dibenzo[de,h]quinolin-7-one (I; bianfugecine), 5,6-methylenedioxy-9-methoxy-7H-dibenzo[de,h]quinolin-7-one (II; bianfugedine), and 4,5,6,9-tetramethoxy-7H-dibenzo[de,h)quinolin-7-one (III; bianfugenine).

IT 88142-60-3 96681-50-4
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(of Menispermum dauricum)

RN 88142-60-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 4,5,6,9-tetramethoxy- (CA INDEX NAME)



RN 96681-50-4 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5,9-dimethoxy- (CA INDEX NAME)



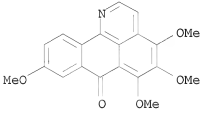
OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

L6 ANSWER 55 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1985:218382 CAPLUS
DOCUMENT NUMBER: 102:218382
ORIGINAL REFERENCE NO.: 102:34207a,34210a
TITLE: Studies on the chemical constituents of Menispermum dauricum DC
AUTHOR(S): Hou, Cuiying; Xue, Hong
CORPORATE SOURCE: Inst. Mater. Med., Chin. Acad. Med. Sci., Beijing, Peop. Rep. China
SOURCE: Yaoxue Xuebao (1984), 19(6), 471-2
CODEN: YHHPAL; ISSN: 0513-4870
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

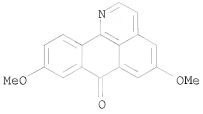
AB Three new oxoisoaporphine alkaloids were isolated from the ethanolic extract of the rhizome of M. dauricum. The structures were elucidated as 5,9-dimethoxy-7-H-dibenzo[de,h]quinolin-7-one, named bianfugecine, 5,6-methylenedioxy-9-methoxy-7-H-dibenzo[de,h]quinolin-7-one, named bianfugedine, and 4,5,6,9-tetramethoxy-7-H-dibenzo[de,h]quinolin-7-one, named bianfugenine.

IT 88142-60-3 96681-50-4
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(of Menispermum dauricum)

RN 88142-60-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 4,5,6,9-tetramethoxy- (CA INDEX NAME)



RN 96681-50-4 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5,9-dimethoxy- (CA INDEX NAME)



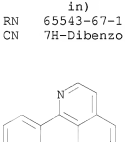
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L6 ANSWER 56 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1985:184465 CAPLUS
DOCUMENT NUMBER: 102:184465
ORIGINAL REFERENCE NO.: 102:28925a,28928a
TITLE: Resonance theory and Kekule structure counts
AUTHOR(S): Aoki, Junji; Iwashima, Satoshi
CORPORATE SOURCE: Fac. Sci., Toho Univ., Tokyo, 143, Japan
SOURCE: Senryo to Yakuhin (1984), 29(11), 232-50
CODEN: SETYAL; ISSN: 0370-9671
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

AB The usefulness of Kekule structure counts in determining resonance energies and the methods of calculating Kekule structure counts of hydrocarbons having benzene nuclei are described. According to Herndon the resonance energy (Dewar) of aromatic hydrocarbons is easily calculated from their Kekule structure counts, and the results are close to those obtained by intricate MO theory. Kekule structure counts are effective in identifying unknown isomers. Ionization potentials are also calculated from Kekule structure counts. Kekule structure counts and ionization potentials (both exptl. and calculated ones) of 27 compds. are given in a table. Methods for calcn. of Kekule structure counts of benzenoid hydrocarbons of ortho-condensation construction, orthoperi-condensation construction, and ionic construction are also given. The structures of vat dyes are also discussed.

IT 65543-67-1
RL: PRP (Properties)
(resonance energy of, graph theor. calcn. of, Kekule structure count in)

RN 65543-67-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



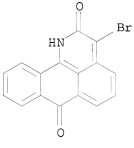
L6 ANSWER 57 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1985:150903 CAPLUS
DOCUMENT NUMBER: 102:150903

ORIGINAL REFERENCE NO.: 102:23729a,23732a
TITLE: Fluorescent dyes for solar collectors
AUTHOR(S): Iden, Ruediger; Seybold, Guenther; Stange, Andreas; Eilingsfeld, Heinz
CORPORATE SOURCE: ZD/Farbenlab., BASF A.-G., Ludwigshafen, Fed. Rep. Ger.
SOURCE: Forschungsber. - Bundesminist. Forsch. Technol., Technol. Forsch. Entwickl. (1984), BMFT-FB-T 84-164, 115 pp.
CODEN: BFTEAJ; ISSN: 0340-7608
DOCUMENT TYPE: Report
LANGUAGE: German

AB A large number of organic dyes was synthesized and screened for potential use in solar collectors. Most suitable were perylene and perylene imide dyes, B complexes of naphtholactam dyes, and polycarbocyclic dyes. These compds. covered the whole color range from yellow to blue. Chromatog. methods were developed for purification of fluorescent dyes.

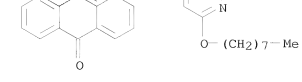
IT 31715-46-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(etherification of, by octyl bromide)

RN 31715-46-5 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 3-bromo- (CA INDEX NAME)



IT 95690-00-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)

RN 95690-00-9 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-(octyloxy)-3-[[2-(octyloxy)-7-oxo-7H-dibenzo[de,h]quinolin-4-yl]thio]- (CA INDEX NAME)

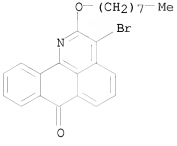


IT 95689-99-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with potassium sulfide)

RN 95689-99-9 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-(octyloxy)- (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L6 ANSWER 58 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1985:113329 CAPLUS

DOCUMENT NUMBER: 102:113329

ORIGINAL REFERENCE NO.: 102:17803a,17806a

TITLE: Synthesis and physical properties of azapolycyclic hydrocarbons. Part 1. Preparation of 1-azabenzanthrone and its condensation products and their structural determination

AUTHOR(S): Iwashima, Satoshi; Ueda, Toyotoshi; Honda, Hitoshi; Tsujioka, Toshitsugu; Ohno, Mitsuru; Aoki, Junji; Kan, Teruo

CORPORATE SOURCE: Dep. Chem., Meisei Univ., Tokyo, 191, Japan

SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1984), (9), 2177-87
CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 102:113329

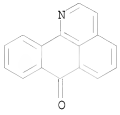
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Acylation of Ph(CH2)2NH2 with phthalic anhydride gave 88.2% N-phenethylphthalimide, which on sequential reductive cyclization and cyclocondensation gave 1-azabenzanthrone (I) in 38.6% overall yield. Self condensation of I with Zn dust-ZnCl2 gave the isomers II-IV in a 29:3:68 ratio whereas alkali fusion self condensation of I followed by ZnCl2 reduction gave the isomers II-V in a ratio of 3:23:14:60. The structures of II-V were assigned from chemical and spectral data; V and another isomer, possibly 5,14-diazatetrabenzo[a,cd,lm,o]perylene, which was detected but not isolated, are new structural isomers of fused nanocyclic compds. whose parent aromatic hydrocarbons were not prepared

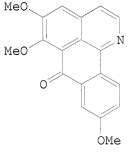
IT 65543-67-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)
(preparation and self-condensation reactions of)
RN 65543-67-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



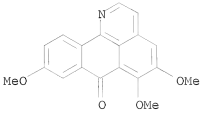
OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

L6 ANSWER 59 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1984:85966 CAPLUS
DOCUMENT NUMBER: 100:85966
ORIGINAL REFERENCE NO.: 100:13041a,13044a
TITLE: Studies on the alkaloids of menispermaceous plants. 279. Alkaloids of Menispermum dauricum DC. 9. Structure and synthesis of menisporphine, a new type of isoquinoline alkaloid
AUTHOR(S): Kunitomo, J.; Satoh, M.; Shingu, T.
CORPORATE SOURCE: Fac. Pharm. Sci., Mukogawa Women's Univ., Nishinomiya, 663, Japan
SOURCE: Tetrahedron (1983), 39(20), 3261-5
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

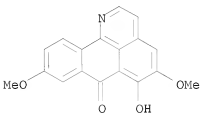


I

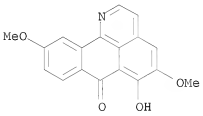
AB The structure of a yellow base from Menispermum dauricum DC. (Menispermaceae) was determined to be the dibenzoquinolinone I from spectral data and synthesis, and was named menisporphine. This is a new isoquinoline-type alkaloid having a 7H-dibenzo[de,h]quinolin-7-one skeleton for which the general term "oxoisoaporphine" is proposed.
IT 83287-02-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkaloid from Menisperum dauricum, structure determination of)
RN 83287-02-9 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5,6,9-trimethoxy- (CA INDEX NAME)



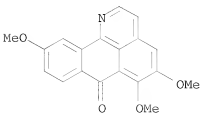
IT 83287-03-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and methylation of)
RN 83287-03-0 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-hydroxy-5,9-dimethoxy- (CA INDEX NAME)



IT 88741-67-7P 88741-68-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 88741-67-7 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-hydroxy-5,10-dimethoxy- (CA INDEX NAME)

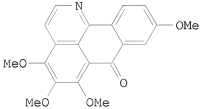


RN 88741-68-8 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5,6,10-trimethoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)

L6 ANSWER 60 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1984:3513 CAPLUS
DOCUMENT NUMBER: 100:3513
ORIGINAL REFERENCE NO.: 100:611a,614a
TITLE: Studies on constituents of medicinal plants. XXIII. Constituents of the vines of Menispermum dauricum DC. (2)
AUTHOR(S): Takani, Masako; Takasu, Yasuko; Takahashi, Kotaro
CORPORATE SOURCE: Fac. Pharm. Sci., Kanazawa Univ., Kanazawa, 920, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1983), 31(9), 3091-3
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB A new oxoisoaporphine-type compound, named dauriporphine (I) was isolated from the vines of M. dauricum (Menispermaceae) and the structure of this compound was elucidated as 4,5,6,9-tetramethoxy-7H-dibenzo[de,h]quinolin-7-one.

IT 88142-60-3
RL: BIOL (Biological study)
(from vine of Menispermum dauricum)

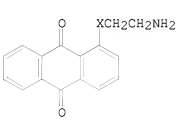
RN 88142-60-3 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one, 4,5,6,9-tetramethoxy- (CA INDEX NAME)

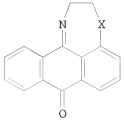
OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

L6 ANSWER 61 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1983:522432 CAPLUS
DOCUMENT NUMBER: 99:122432
ORIGINAL REFERENCE NO.: 99:18861a,18864a

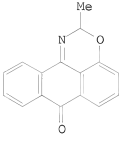
TITLE: Synthesis and rearrangements of dihydro-1,4-oxazepine and dihydro-1,4-thiazepine derivatives
AUTHOR(S): Krapcho, A. Paul; Shaw, Kenneth J.
CORPORATE SOURCE: Vermont Reg. Cancer Cent., Univ. Vermont, Burlington, VT, 05405, USA
SOURCE: Journal of Organic Chemistry (1983), 48(19), 3341-3
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 99:122432
GI



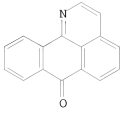
I



II

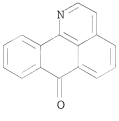


III



IV

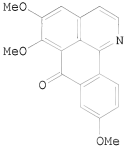
AB Anthraquinones I (X = O, S), prepared by treatment of a halo derivative with HXCH2CH2NH2, were converted to dihydrooxa- and thiazepines II. II (X = O) on heating in AcOH rearranged to give III. Heating II (X = S) in AcOH gave pyridinanthrone IV.
IT 65543-67-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 65543-67-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L6 ANSWER 62 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN

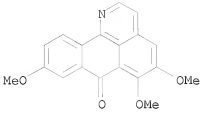
ACCESSION NUMBER: 1982:598422 CAPLUS
DOCUMENT NUMBER: 97:198422
ORIGINAL REFERENCE NO.: 97:33240h,33241a
TITLE: Structure of menisporphine: a new type of isoquinoline alkaloid
AUTHOR(S): Kunitomo, Junichi; Satoh, Miyoko
CORPORATE SOURCE: Fac. Pharm. Sci., Mukogawa Women's Univ., Nishinomiya, 663, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1982), 30(7), 2659-60
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

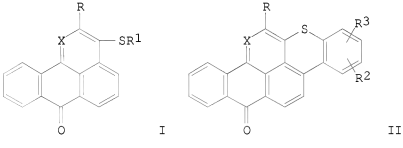
AB The structure of the unknown yellow base from Menisperum dauricum DC. (Menispermaceae) was determined to be 5,6,9-trimethoxy-7H-dibenzo[de,h]quinolin-7-one (I) by spectral data and total synthesis. It was named menisporphine and the skeletal name "oxoisoaporphine" was proposed for this new type of alkaloid. The biosynthesis route of oxoisoaporphine-type alkaloids in plants is suggested.
IT 83287-03-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and methylation of)
RN 83287-03-0 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-hydroxy-5,9-dimethoxy- (CA INDEX NAME)

IT 83287-02-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(Menisperum dauricum alkaloid, structure of)
RN 83287-02-9 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5,6,9-trimethoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

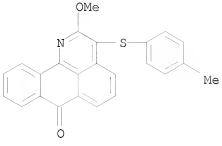
L6 ANSWER 63 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1982:124502 CAPLUS
DOCUMENT NUMBER: 96:124502
ORIGINAL REFERENCE NO.: 96:20459a,20462a
TITLE: New daylight fluorescent pigments
AUTHOR(S): Carlini, Filippo M.; Paffoni, Camillo; Boffa, Gioacchino
CORPORATE SOURCE: Ist. G. Donegani S.p.A., Novara, 28100, Italy
SOURCE: Dyes and Pigments (1982), 3(1), 59-69
CODEN: DYPIDX; ISSN: 0143-7208
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



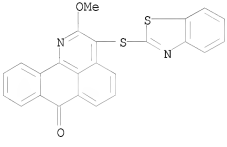
AB The synthesis and properties of a series of plastosol. daylight fluorescent pigments of general structures I (X = CH, N; R = H, alkoxy; R1 = aromatic, heteroarom., aliphatic radical) and II (X = CH, N; R = H, alkoxy; R2, R3 = H, alkyl, halogen, alkoxy) are described. I have colors ranging from greenish yellow to orange, and II are red to violet. These pigment exhibit good lightfastness and thermal stability when incorporated in plastics.

IT 40338-74-7 61433-45-2 81232-53-3
81232-54-4 81232-56-6 81232-57-7
81232-58-8 81232-59-9 81232-60-2
81232-61-3
RL: USES (Uses)
(pigment, preparation light fastness and optical absorption maximum of)

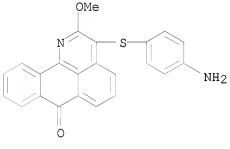
RN 40338-74-7 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-methoxy-3-[(4-methylphenyl)thio]- (CA INDEX NAME)



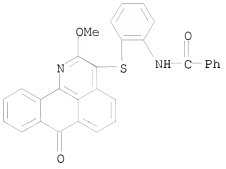
RN 61433-45-2 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-(2-benzothiazolylthio)-2-methoxy- (CA INDEX NAME)



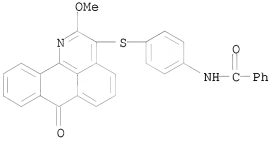
RN 81232-53-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-[(4-aminophenyl)thio]-2-methoxy- (CA INDEX NAME)



RN 81232-54-4 CAPLUS
CN Benzamide, N-[2-[(2-methoxy-7-oxo-7H-dibenzo[de,h]quinolin-3-yl)thio]phenyl]- (CA INDEX NAME)

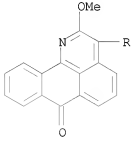


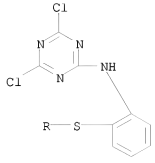
RN 81232-56-6 CAPLUS
CN Benzamide, N-[4-[(2-methoxy-7-oxo-7H-dibenzo[de,h]quinolin-3-yl)thio]phenyl]- (CA INDEX NAME)



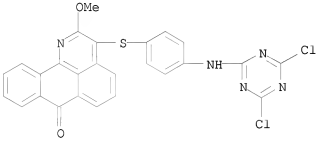
RN 81232-57-7 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-[[2-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]phenyl]thio]-2-methoxy- (CA INDEX NAME)

PAGE 1-A

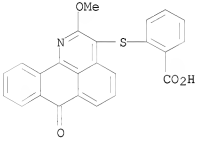




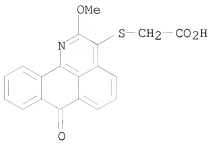
RN 81232-58-8 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-[[4-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]phenyl]thio]-2-methoxy- (CA INDEX NAME)



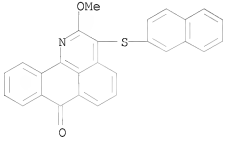
RN 81232-59-9 CAPLUS
CN Benzoic acid, 2-[(2-methoxy-7-oxo-7H-dibenzo[de,h]quinolin-3-yl)thio]- (CA INDEX NAME)



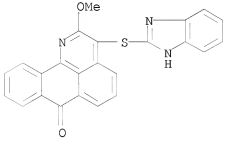
RN 81232-60-2 CAPLUS
CN Acetic acid, 2-[(2-methoxy-7-oxo-7H-dibenzo[de,h]quinolin-3-yl)thio]- (CA INDEX NAME)



RN 81232-61-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-methoxy-3-(2-naphthalenylthio)- (CA INDEX NAME)



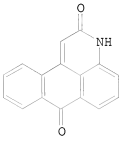
IT 61433-44-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(pigment, preparation, lightfastness and optical absorption maximum of)
RN 61433-44-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-(1H-benzimidazol-2-ylthio)-2-methoxy- (CA INDEX NAME)



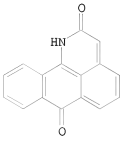
OS.CITING REF COUNT: 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)

L6 ANSWER 64 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1981:603081 CAPLUS
DOCUMENT NUMBER: 95:203081
ORIGINAL REFERENCE NO.: 95:33921a,33924a
TITLE: Electronic structure of 2-hydroxyazabenzanthrones
AUTHOR(S): Mikhailova, T. A.; Zaitsev, B. E.; Sheban, G. V.; Gorelik, M. V.

CORPORATE SOURCE: Nauchno-Issled. Inst. Org. Poluprod. Krasitelei, Moscow, 103787, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1981), (6), 803-9
CODEN: KGSSAQ; ISSN: 0453-8234
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI

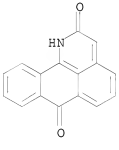


I

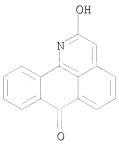


II

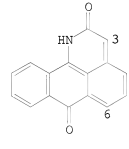
AB Bond orders at charges, electronic spectra, and HOMO and LUMO energies were calculated for title compds. I and II, their lactim tautomers, and some related mols. by the PPP method. The C-C bonds in the terminal benzene rings of I are approx. uniform, whereas in 1 of the benzene rings of II, bond alternation is pronounced. The aromaticity of the heterocyclic ring in II is greater than that in I. In the 1st excited state the C-C bonds become more uniform, and π-electron d. is shifted from the lactam or lactim group toward the ketone function. The effects of the HOMO and LUMO energies on the spectra were discussed.
IT 31293-07-9 79668-96-5
RL: PRP (Properties)
(MO calcns. for)
RN 31293-07-9 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione (CA INDEX NAME)



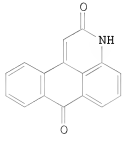
RN 79668-96-5 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-hydroxy- (CA INDEX NAME)



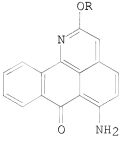
L6 ANSWER 65 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1981:461231 CAPLUS
DOCUMENT NUMBER: 95:61231
ORIGINAL REFERENCE NO.: 95:10343a,10346a
TITLE: Tautomerism and acid-base properties of 2-hydroxy-1-azabenzanthrones
AUTHOR(S): Mikhailova, T. A.; Zaitsev, B. E.; Gorelik, M. V.
CORPORATE SOURCE: Nauchno-Issled. Inst. Org. Poluprod. Krasitelei, Moscow, USSR
SOURCE: Zhurnal Organicheskoi Khimii (1981), 17(4), 803-11
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 95:61231
GI



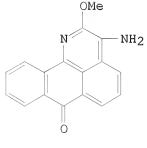
I



II



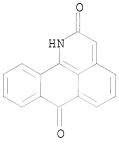
III



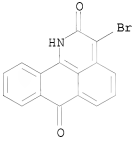
IV

AB In polar protic solvents a tautomerism between I and the corresponding lactim form occurs. Introduction of a halogen atom into position 3 or 6 decreases the lactam content; an amino group at position 6 increases it. The acidity and basicity of I exceed those of II. Protonation of III (R = H, Me) occurs initially on the heterocyclic N, then on the carbonyl O, and

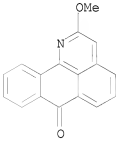
finally on the NH2 group. IV is protonated 1st on the NH2 group.
IT 31293-07-9 31715-46-5 40338-68-9
78380-64-0
RL: PRP (Properties)
(acid-base properties and tautomerism of)
RN 31293-07-9 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione (CA INDEX NAME)



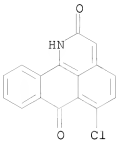
RN 31715-46-5 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 3-bromo- (CA INDEX NAME)



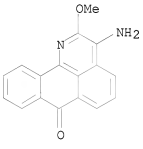
RN 40338-68-9 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-methoxy- (CA INDEX NAME)



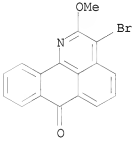
RN 78380-64-0 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 6-chloro- (CA INDEX NAME)



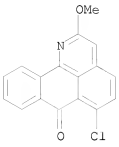
IT 40338-73-6
RL: PRP (Properties)
(basicity and electronic spectrum of)
RN 40338-73-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-amino-2-methoxy- (CA INDEX NAME)



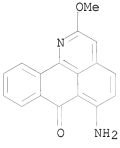
IT 31715-55-6 78380-66-2 78380-67-3
78380-68-4 78380-69-5 78380-70-8
78380-71-9 78380-72-0 78380-73-1
78380-74-2
RL: PRP (Properties)
(electronic spectrum of)
RN 31715-55-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-methoxy- (CA INDEX NAME)



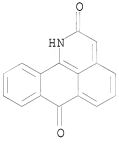
RN 78380-66-2 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-chloro-2-methoxy- (CA INDEX NAME)



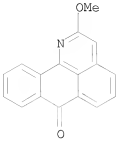
RN 78380-67-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 6-amino-2-methoxy- (CA INDEX NAME)



RN 78380-68-4 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, conjugate acid (1:1) (CA INDEX NAME)

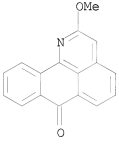


RN 78380-69-5 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-methoxy-, conjugate acid (1:1) (CA INDEX NAME)



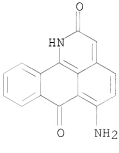
● H+

RN 78380-70-8 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-methoxy-, conjugate acid (1:2) (CA INDEX NAME)



●2 H+

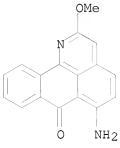
RN 78380-71-9 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 6-amino-, conjugate acid (1:1) (CA INDEX NAME)



● H+

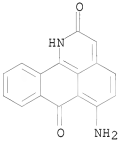
RN 78380-72-0 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one, 6-amino-2-methoxy-, conjugate acid (1:1) (CA INDEX NAME)



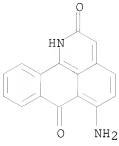
● H^+

RN 78380-73-1 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 6-amino-, conjugate acid (1:2) (CA INDEX NAME)



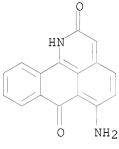
●2 H^+

RN 78380-74-2 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 6-amino-, conjugate acid (1:3) (CA INDEX NAME)



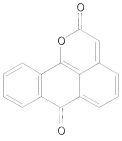
●3 H^+

IT 78380-65-1
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(tautomerism of)
RN 78380-65-1 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 6-amino- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L6 ANSWER 66 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1978:563353 CAPLUS
DOCUMENT NUMBER: 89:163353
ORIGINAL REFERENCE NO.: 89:25313a
TITLE: Synthesis and properties of pyronanthrone
AUTHOR(S): Gorelik, M. V.; Kazankov, M. V.; Bernadskii, M. I.
CORPORATE SOURCE: Nauchno-Issled. Inst. Org. Poluprod. Krasitelei, Moscow, USSR
SOURCE: Zhurnal Organicheskoi Khimii (1978), 14(7), 1535-44
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 89:163353
GI



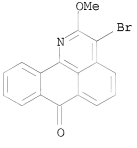
I

AB Treatment of anthraquinonyl-1-acetic acid and its derivs. with dehydrating agents gave pyronanthrones, e.g., 2H,7H-dibenzo[de,h]chromen-2,7-dione (I), a new group of peri-condensed derivs. of anthrone with ana-quinoid system bonds. Pyronanthrones were treated with electrophilic and nucleophilic agents to give products substituted in position 3; with dienophiles, adducts were formed which aromatized to give benzanthrone derivs. Heating I in an organic solvent gave (reversibly) the dimer, which was treated with alkaline agents and acids to give 3,3'-bispyronanthrone and 2,3-di-1-anthraquinonylsuccinic acid.

IT 31715-55-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(coupling reaction of)

RN 31715-55-6 CAPLUS

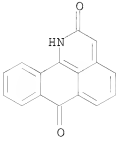
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-methoxy- (CA INDEX NAME)



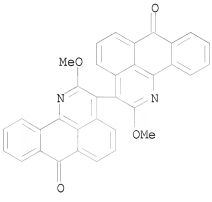
IT 31293-07-9P 67768-16-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 31293-07-9 CAPLUS

CN 1H-Dibenzo[de,h]quinoline-2,7-dione (CA INDEX NAME)



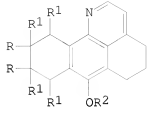
RN 67768-16-5 CAPLUS
CN [3,3'-Bi-7H-dibenzo[de,h]quinoline]-7,7'-dione, 2,2'-dimethoxy- (CA INDEX NAME)



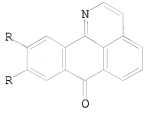
L6 ANSWER 67 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1978:424175 CAPLUS
DOCUMENT NUMBER: 89:24175
ORIGINAL REFERENCE NO.: 89:3753a,3756a
TITLE: Dibenzo[de,h]quinoline derivatives
PATENT ASSIGNEE(S): Rhone-Poulenc Industries S. A., Fr.
SOURCE: Belg., 17 pp.
CODEN: BEXXAL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 854869	A1	19771121	BE 1977-177769	19770520
FR 2351656	A1	19771216	FR 1976-15379	19760521
FR 2351656	B1	19781215		
NL 7705337	A	19771123	NL 1977-5337	19770513
SE 7705853	A	19771122	SE 1977-5853	19770517
DK 7702174	A	19771122	DK 1977-2174	19770518
JP 52142074	A	19771126	JP 1977-56537	19770518
ZA 7702986	A	19780426	ZA 1977-2986	19770518
GB 1530438	A	19781101	GB 1977-20969	19770518
AU 7725250	A	19781123	AU 1977-25250	19770518
AU 507900	B2	19800228		
US 4128650	A	19781205	US 1977-798139	19770518
HU 173385	B	19790428	HU 1977-RO929	19770519
FI 7701613	A	19771122	FI 1977-1613	19770520
NO 7701771	A	19771122	NO 1977-1771	19770520
CA 1073912	A1	19800318	CA 1977-278864	19770520
CH 625225	A5	19810915	CH 1977-6242	19770520

PRIORITY APPLN. INFO.: FR 1976-15379 A 19760521
OTHER SOURCE(S): MARPAT 89:24175
GI



I



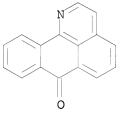
II

AB Dibenzo[de,h]quinolines I (R = H, MeO; R1 = H or R12 = bond; R2 = H, CH2CO2H) were prepared by partial hydrogenation of the ketones II. I are antiviral, e.g., inhibiting rhinovirus human strain 2060 at 3-15 μg/mL. Thus, the hydrogenation of 16.5 g II (R = MeO), obtained in several steps from II (R = H), gave 4.56 g I (R = MeO, R12 = bond, R2 = H).

IT 65543-67-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(partial hydrogenation of)

RN 65543-67-1 CAPLUS

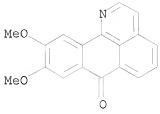
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



IT 65543-60-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and partial hydrogenation of)

RN 65543-60-4 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one, 9,10-dimethoxy- (CA INDEX NAME)



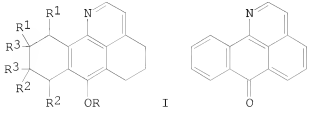
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L6 ANSWER 68 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1978:74307 CAPLUS
DOCUMENT NUMBER: 88:74307
ORIGINAL REFERENCE NO.: 88:11737a,11740a
TITLE: Dibenzo[de,h]quinoline
INVENTOR(S): Fabre, Jean Louis; Farge, Daniel; James, Claude
PATENT ASSIGNEE(S): Rhone-Poulenc Industries S. A., Fr.
SOURCE: Ger. Offen., 23 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2722773	A1	19771208	DE 1977-2722773	19770520
FR 2351656	A1	19771216	FR 1976-15379	19760521
FR 2351656	B1	19781215		
NL 7705337	A	19771123	NL 1977-5337	19770513
SE 7705853	A	19771122	SE 1977-5853	19770517
DK 7702174	A	19771122	DK 1977-2174	19770518
JP 52142074	A	19771126	JP 1977-56537	19770518
ZA 7702986	A	19780426	ZA 1977-2986	19770518
GB 1530438	A	19781101	GB 1977-20969	19770518
AU 7725250	A	19781123	AU 1977-25250	19770518
AU 507900	B2	19800228		
US 4128650	A	19781205	US 1977-798139	19770518
HU 173385	B	19790428	HU 1977-RO929	19770519
FI 7701613	A	19771122	FI 1977-1613	19770520
NO 7701771	A	19771122	NO 1977-1771	19770520
CA 1073912	A1	19800318	CA 1977-278864	19770520
CH 625225	A5	19810915	CH 1977-6242	19770520

PRIORITY APPLN. INFO.: FR 1976-15379 A 19760521

GI

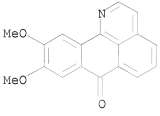


AB Four title compds. I (R = H, CH2CO2H; R1 = R2 = H, R12 = R22 = bond; R3 = H, OMe) were prepared for use as virucides. Thus, II was hydrogenated over Adams Pt in EtOH at 10 bar to give I (R = R3 = H, R12 = R22 = bond) or in AcOH at 25 bar to give I (R = R1 = R2 = R3 = H). I had min. inhibiting concentration of 3-15 μg/cm3 against Rhinovirus humanus.

IT 65543-60-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reduction of)

RN 65543-60-4 CAPLUS

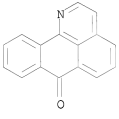
CN 7H-Dibenzo[de,h]quinolin-7-one, 9,10-dimethoxy- (CA INDEX NAME)



IT 65543-67-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reduction of)

RN 65543-67-1 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)

L6 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1977:141620 CAPLUS

DOCUMENT NUMBER: 86:141620

ORIGINAL REFERENCE NO.: 86:22251a,22254a

TITLE: 2-Methoxy-3-aminobenzanthrone and 2-ethoxy-3-aminobenzanthrone as bulk dyes for plastics

INVENTOR(S): Carlini, Filippo M.; Mazzaferro, Nicola; Paffoni, Camillo; Boffa, Gioacchino

PATENT ASSIGNEE(S): Montedison S.p.A., Italy

SOURCE: Ger. Offen., 13 pp.
CODEN: GWXXBX

DOCUMENT TYPE: Patent

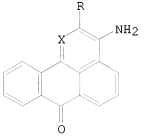
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2629454	A1	19770127	DE 1976-2629454	19760630
JP 52006747	A	19770119	JP 1976-76591	19760630
PRIORITY APPLN. INFO.:			IT 1975-25029 A	19750702

GI



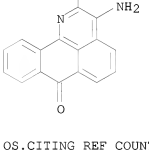
I

AB Benzanthrone derivs. (I; R = H, MeO; X = CH, N) were prepared and used to mass dye poly(Me methacrylate) (II) [9011-14-7], polystyrene [9003-53-6], and ABS [9003-56-9] fast orange to violet shades. Thus, 2-methoxybenzanthrone [6535-67-7] was nitrated and the resulting 2-methoxy-3-nitrobenzanthrone [62155-81-1] in the form of an aqueous paste was reduced with Na sulfide to give I (R = H, X = CH) [62155-82-2], dyeing II a fast, fluorescent orange shade.

IT 40338-73-6
RL: USES (Uses)
(dyeing by, of poly(methyl methacrylate))

RN 40338-73-6 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one, 3-amino-2-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

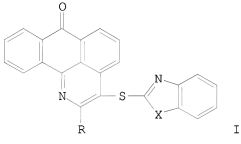
L6 ANSWER 70 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER:	1977:56754 CAPLUS
DOCUMENT NUMBER:	86:56754
ORIGINAL REFERENCE NO.:	86:9057a,9060a
TITLE:	Azabenzanthrone fluorescent dyes
INVENTOR(S):	Pieri, Giampiero; Carlini, Filippo M.; Paffoni, Camillo; Boffa, Gioacchino
PATENT ASSIGNEE(S):	Italy
SOURCE:	Ger. Offen., 12 pp.

CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2617321	A1	19761104	DE 1976-2617321	19760421
NL 7604130	A	19761026	NL 1976-4130	19760420
FR 2308667	A1	19761119	FR 1976-11667	19760421
FR 2308667	B1	19790720		
US 4031096	A	19770621	US 1976-679030	19760421
GB 1497000	A	19780105	GB 1976-16171	19760421
BR 7602453	A	19761019	BR 1976-2453	19760422
CA 1050017	A1	19790306	CA 1976-251251	19760422
BE 841063	A1	19761025	BE 1976-166409	19760423
JP 51130427	A	19761112	JP 1976-45609	19760423
PRIORITY APPLN. INFO.:			IT 1975-22723 A	19750424
			IT 1975-22722 A	19750424

GI



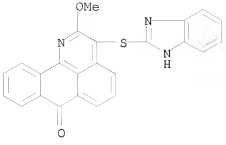
I

AB Refluxing 3-bromo-2-methoxy-1-azabenzanthrone [31715-55-6] with 2-mercaptobenzimidazole [583-39-1] or 2-mercaptobenzothiazole [149-30-4] in DMF containing Na2CO3 gave fluorescent yellow I (R = MeO, X = N) (II) [61433-44-1] and I (R = MeO, X = S) [61433-45-2], resp. II, m. 360° (decompose), showed good lightfastness and heat stability when extruded with poly(Me methacrylate) [9011-14-7].

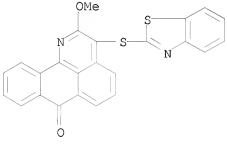
IT 61433-44-1P 61433-45-2P
RL: PREP (Preparation)
(fluorescent dye, manufacture of)

RN 61433-44-1 CAPLUS

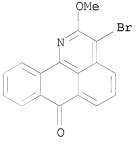
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-(1H-benzimidazol-2-ylthio)-2-methoxy- (CA INDEX NAME)



RN 61433-45-2 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-(2-benzothiazolylthio)-2-methoxy- (CA INDEX NAME)



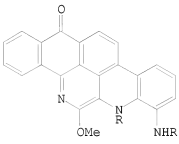
IT 31715-55-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with mercaptobenzimidazole and mercaptobenzothiazole)
RN 31715-55-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-methoxy- (CA INDEX NAME)



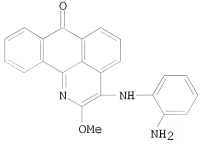
OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L6 ANSWER 71 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1977:56722 CAPLUS
DOCUMENT NUMBER: 86:56722
ORIGINAL REFERENCE NO.: 86:9053a,9056a
TITLE: New heterocyclic dyes: a derivative of anthrabenzonaphthyridine
AUTHOR(S): Boffa, Gioacchino; Mazzaferro, Nicola; Paffoni, Camillo

CORPORATE SOURCE: Ist. Ric. "G. Donegani", Montedison S.p.A., Novara, Italy
SOURCE: Annali di Chimica (Rome, Italy) (1975), 65(5-6), 369-70
CODEN: ANCRAI; ISSN: 0003-4592
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

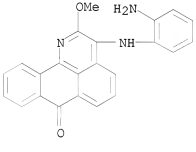


I



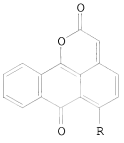
II

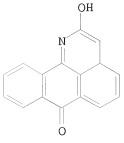
AB Anthrabenzonaphthyridine dye I (R = Bz) [59836-90-7], used for dyeing plastics, especially poly(Me methacrylate) [9011-14-7], a lightfast daylight fluorescent yellow shade, was prepared by alkali fusion of II [59836-89-4] and reaction of the cyclized intermediate I (R = H) [59836-91-8] with BzCl.
IT 59836-89-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of)
RN 59836-89-4 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-[(2-aminophenyl)amino]-2-methoxy- (CA INDEX NAME)

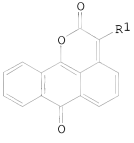


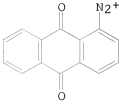
L6 ANSWER 72 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1977:43506 CAPLUS
DOCUMENT NUMBER: 86:43506
ORIGINAL REFERENCE NO.: 86:6917a,6920a
TITLE: Cyclization of anthraquinonyl-1-acetic acid
AUTHOR(S): Gorelik, M. V.; Kazankov, M. V.; Bernadskii, M. I.
CORPORATE SOURCE: Nauchno-Issled. Inst. Org. Poluprod. Krasitelei, Moscow, USSR
SOURCE: Zhurnal Organicheskoi Khimii (1976), 12(9), 2041-2
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal

LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 86:43506
GI


I


II


III

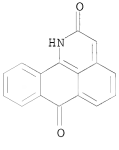

IV

AB Intramol. cyclization of the title compound gave 96% I (R = H); I (R = Cl) was prepared in 75% yield by cyclization of the corresponding acid; 20% I (R = OH) was also obtained. Treatment of I (R = H) with NH3 gave 48% II. Reaction of I (R = H) with SO2Cl2 gave 94% III (R1 = Cl) which was also obtained by reaction of diazonium salt IV with ClCH:CCl2. III (R1 = Br) was prepared by the former method.

IT 31293-07-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 31293-07-9 CAPLUS

CN 1H-Dibenzo[de,h]quinoline-2,7-dione (CA INDEX NAME)



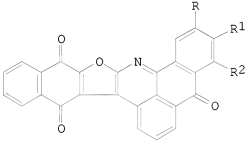
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L6 ANSWER 73 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1976:578980 CAPLUS
DOCUMENT NUMBER: 85:178980
ORIGINAL REFERENCE NO.: 85:28609a,28612a

TITLE: Heterocyclic polynuclear compounds
INVENTOR(S): Ribaldone, Giuseppe; Borsotti, Giampiero
PATENT ASSIGNEE(S): Montedison S.p.A., Italy
SOURCE: Ger. Offen., 17 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2608517	A1	19760916	DE 1976-2608517	19760302
JP 51115535	A	19761012	JP 1976-21879	19760302
US 4048173	A	19770913	US 1976-663151	19760302
GB 1491641	A	19771109	GB 1976-8749	19760304

PRIORITY APPLN. INFO.: IT 1975-20988 A 19750306
GI

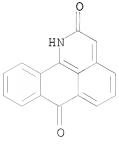


I

AB Triones (I; R = R1 = R2 = H; R = R1 = H, R2 = Cl; R = R1 = Cl, R2 = H; R = R1 = H, R2 = MeO), yellow-red dyes suitable for plastics, are prepared by condensation of 2,3-dichloro-1,4-naphthoquinone (II) with 1-azo-2-hydroxybenzanthrone (III) derivs. Thus, reaction of 20 g II with 20 g III for 2 hr in refluxing pyridine gives 27 g orange I (R = R1 = R2 = H).

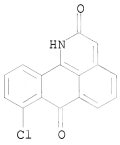
IT 31293-07-9 60964-18-3 60964-19-4
60964-20-7
RL: USES (Uses)
(reaction with 2,3-dichloro-1,4-naphthoquinone)

RN 31293-07-9 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione (CA INDEX NAME)

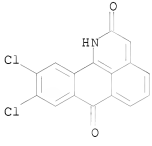


RN 60964-18-3 CAPLUS

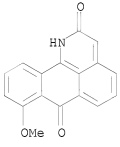
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 8-chloro- (CA INDEX NAME)



RN 60964-19-4 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 9,10-dichloro- (CA INDEX NAME)



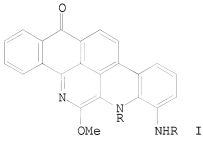
RN 60964-20-7 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 8-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L6 ANSWER 74 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1976:525769 CAPLUS
DOCUMENT NUMBER: 85:125769
ORIGINAL REFERENCE NO.: 85:20181a,20184a
TITLE: New heterocyclic dyes: a derivative of anthrabenzonaphthyridine
AUTHOR(S): Boffa, Gioacchino; Mazzaferro, Nicola; Paffoni, Camillo
CORPORATE SOURCE: Ist. Ric. "G. Donegani", Soc. Montedison, Novara, Italy

SOURCE: Annali di Chimica (Rome, Italy) (1975), 65(5-6), 369-70
CODEN: ANCRAI; ISSN: 0003-4592
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



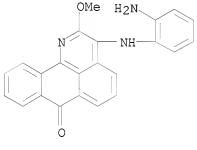
I

AB I (R = Bz) [59836-90-7], a yellow daylight fluorescent dye for poly(Me methacrylate) [9011-14-7], was prepared by cyclizing 3-(2-aminoanilino)-2-methoxy-1-azabenzanthrone [59836-89-4] with KOH in pyridine at 120° for 4 hr to give I (R = H) [59836-91-8] and treating with BzCl.

IT 59836-89-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)

RN 59836-89-4 CAPLUS

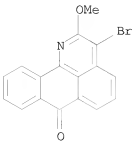
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-[(2-aminophenyl)amino]-2-methoxy- (CA INDEX NAME)



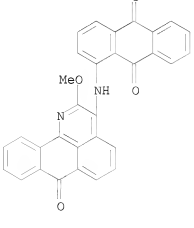
IT 31715-55-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with nitroaniline)

RN 31715-55-6 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-methoxy- (CA INDEX NAME)

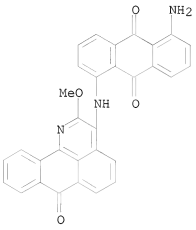


L6 ANSWER 75 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1976:32564 CAPLUS
DOCUMENT NUMBER: 84:32564
ORIGINAL REFERENCE NO.: 84:5329a,5332a
TITLE: New heterocyclic vat dyes
AUTHOR(S): Boffa, Gioacchino; Paffoni, Camillo; Mazzaferro, Nicola
CORPORATE SOURCE: Ist. Ric. "G. Donegani", Montedison, Novara, Italy
SOURCE: Annali di Chimica (Rome, Italy) (1974), 64(11-12), 825-31
CODEN: ANCRAI; ISSN: 0003-4592
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 84:32564
GI For diagram(s), see printed CA Issue.
AB Vat dye (I, R = H, NH2, NHBz; R1 = H, MeO) were prepared and their shades on cotton, chromicity values, fastness properties, and mass spectra were determined The dyeing and fastness properties of I resemble C.I. Vat Green 3.
IT 57669-38-2P 57669-39-3P 57669-40-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 57669-38-2 CAPLUS
CN 9,10-Anthracenedione, 1-[(2-methoxy-7-oxo-7H-dibenzo[de,h]quinolin-3-yl)amino]- (CA INDEX NAME)

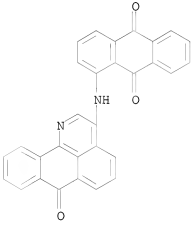


RN 57669-39-3 CAPLUS

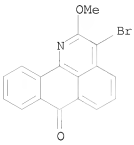
CN 9,10-Anthracenedione, 1-amino-5-[(2-methoxy-7-oxo-7H-dibenzo[de,h]quinolin-3-yl)amino]- (CA INDEX NAME)



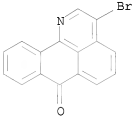
RN 57669-40-6 CAPLUS
CN 9,10-Anthracenedione, 1-[(7-oxo-7H-dibenzo[de,h]quinolin-3-yl)amino]- (CA INDEX NAME)



IT 31715-55-6 57669-37-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with aminoanthraquinone derivative)
RN 31715-55-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-methoxy- (CA INDEX NAME)



RN 57669-37-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L6 ANSWER 76 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1975:607572 CAPLUS
DOCUMENT NUMBER: 83:207572
ORIGINAL REFERENCE NO.: 83:32683a,32686a
TITLE: 14H-5-Aza-7-thiadibenzo[b,d,e,f]chrysene derivatives
INVENTOR(S): Boffa, Gioacchino; Mazzaferro, Nicola
PATENT ASSIGNEE(S): Montedison S.p.A., Italy
SOURCE: Ger. Offen., 9 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

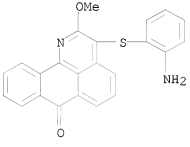
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2500487	A1	19750717	DE 1975-2500487	19750108
IT 1006880	B	19761020	IT 1974-19331	19740111
NL 7500157	A	19750715	NL 1975-157	19750107
GB 1439125	A	19760609	GB 1975-936	19750109
BE 824265	A1	19750710	BE 1975-152271	19750110
FR 2257593	A1	19750808	FR 1975-648	19750110
JP 50101425	A	19750812	JP 1975-5070	19750110
US 4006146	A	19770201	US 1975-540166	19750110
CH 602739	A5	19780731	CH 1975-233	19750110

PRIORITY APPLN. INFO.: IT 1974-19331 A 19740111
GI For diagram(s), see printed CA Issue.
AB I(R = H)(II) [56891-73-7] and I(R = Cl)(III) [56891-74-8] were prepared by reaction of IV with o-aminothiophenol [137-07-5], diazotization of the o-aminophenylthio derivative, and cyclization of the diazonium salt in the

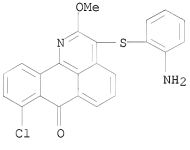
presence of CuSO4. Violet crystalline II and III dissolved in boiling o-C6H4Cl2 to give solns. with strong orange fluorescence. II dyed poly(Me methacrylate) [9011-14-7] a fluorescent deep violet color having good lightfastness.

IT 56891-70-4P 56891-72-6P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)

RN 56891-70-4 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-[(2-aminophenyl)thio]-2-methoxy- (CA INDEX NAME)

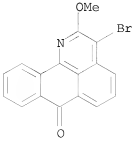


RN 56891-72-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-[(2-aminophenyl)thio]-8-chloro-2-methoxy- (CA INDEX NAME)

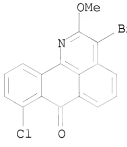


IT 31715-55-6 56891-71-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with aminobenzenethiol)

RN 31715-55-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-methoxy- (CA INDEX NAME)



RN 56891-71-5 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-8-chloro-2-methoxy- (CA INDEX NAME)



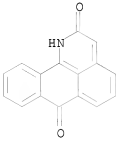
OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L6 ANSWER 77 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1975:595239 CAPLUS
DOCUMENT NUMBER: 83:195239
ORIGINAL REFERENCE NO.: 83:30733a,30736a
TITLE: 2-(3-Hydroxy-1-isoquinolyl)benzoic acid and 7-oxo-7H-dibenzo[de,h]quinolin-2-ol
INVENTOR(S): DE Feo, Francesco; Gonzati, Franco; Osti, Alberto
PATENT ASSIGNEE(S): A.C.N.A.- Aziende Colori Nazionali Affini, S.p.A., Italy
SOURCE: Ger. Offen., 23 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2501742	A1	19750724	DE 1975-2501742	19750117
IT 1006999	B	19761020	IT 1974-19614	19740121
US 4011224	A	19770308	US 1974-536591	19741226
NL 7500525	A	19750723	NL 1975-525	19750116
FR 2258383	A1	19750818	FR 1975-1413	19750117
GB 1493053	A	19771123	GB 1975-2176	19750117
CA 1049527	A1	19790227	CA 1975-218227	19750120
CH 611883	A5	19790629	CH 1975-628	19750120
BE 824608	A1	19750722	BE 1975-152563	19750121
JP 50101361	A	19750811	JP 1975-8410	19750121
JP 58004022	B	19830124		
US 4011227	A	19770308	US 1976-679559	19760423
PRIORITY APPLN. INFO.:			IT 1974-19614 A	19740121
			IT 1974-25196 A	19740716
			US 1974-536591 A3	19741226

GI For diagram(s), see printed CA Issue.
AB 7-Oxo-7H-dibenzo[de,h]quinolin-2-ol (I) [31293-07-9], useful as a vat dye intermediate, was prepared by heating K phthalimide [1074-82-4] with PhCH2COCl [103-80-0] in PhCl at 120° for 8 hr to give N-(phenylacetyl)phthalimide [54280-03-4], treatment with AlCl3 to form o-(3-hydroxy-1-isoquinolinyl)benzoic acid [57028-51-0], and cyclization

with H2SO4.
IT 31293-07-9P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)
RN 31293-07-9 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione (CA INDEX NAME)



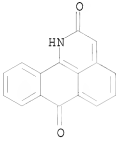
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L6 ANSWER 78 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1975:412220 CAPLUS
DOCUMENT NUMBER: 83:12220
ORIGINAL REFERENCE NO.: 83:2047a,2050a
TITLE: 3,3'-Thiobis(2-methoxy-1-azabenzanthrone)
INVENTOR(S): Ribaldone, Giuseppe
PATENT ASSIGNEE(S): Montedison S.p.A., Italy
SOURCE: Ger. Offen., 9 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

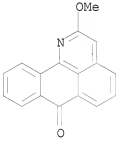
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2440233	A1	19750227	DE 1974-2440233	19740822
DE 2440233	C2	19821202		
IT 998441	B	19760120	IT 1973-28086	19730822
NL 7411003	A	19750225	NL 1974-11003	19740816
FR 2245637	A1	19750425	FR 1974-28400	19740819
AU 7472492	A	19760219	AU 1974-72492	19740819
SU 504485	A3	19760225	SU 1974-2055759	19740820
GB 1429577	A	19760324	GB 1974-36492	19740820
CA 1043781	A1	19781205	CA 1974-207385	19740820
BE 819046	A1	19750221	BE 1974-147783	19740821
US 3943136	A	19760309	US 1974-499416	19740821
JP 50050428	A	19750506	JP 1974-95592	19740822
JP 58005209	B	19830129		
CH 589691	A5	19770715	CH 1974-11466	19740822
PRIORITY APPLN. INFO.:			IT 1973-28086 A	19730822

GI For diagram(s), see printed CA Issue.
AB 3,3'-Thiobis(2-methoxy-1-azabenzanthrone) (I) [31715-56-7], useful as intermediate for the preparation of dyes, was prepared in ≤95.5% yield by reaction of 2-methoxy-1-azabenzanthrone [40338-68-9] with S2Cl2 or SCl2 in inert solvents.
IT 31293-07-9

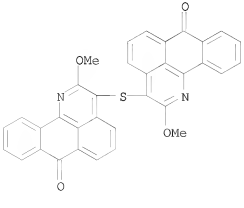
RL: RCT (Reactant); RACT (Reactant or reagent)
(methylation of)
RN 31293-07-9 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione (CA INDEX NAME)



IT 40338-68-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with sulfur chlorides)
RN 40338-68-9 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-methoxy- (CA INDEX NAME)



IT 31715-56-7P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)
RN 31715-56-7 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3,3'-thiobis[2-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L6 ANSWER 79 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1975:172614 CAPLUS
DOCUMENT NUMBER: 82:172614
ORIGINAL REFERENCE NO.: 82:27607a,27610a
TITLE: 2-Hydroxy-1-azabenzanthrone
INVENTOR(S): Ribaldone, Giuseppe; Borsotti, Giampiero; Gonzati, Franco
PATENT ASSIGNEE(S): Montedison S.p.A.; A.C.N.A.-Aziende Colori Nazionali Affini, S.p.A.
SOURCE: Ger. Offen., 14 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2434466	A1	19750206	DE 1974-2434466	19740718
DE 2434466	C2	19820916		
IT 994973	B	19751020	IT 1973-26722	19730718
NL 7409459	A	19750121	NL 1974-9459	19740712
AU 7471241	A	19760115	AU 1974-71241	19740715
GB 1418452	A	19751217	GB 1974-31353	19740716
BE 817725	A1	19750117	BE 1974-146621	19740717
FR 2237889	A1	19750214	FR 1974-24794	19740717
US 3960866	A	19760601	US 1974-489351	19740717
SU 535035	A3	19761105	SU 1974-2043729	19740717
CH 599941	A5	19780615	CH 1974-9923	19740717
CA 1039719	A1	19781003	CA 1974-205104	19740717
JP 50054623	A	19750514	JP 1974-82717	19740718
JP 58005208	B	19830129		

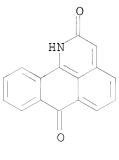
PRIORITY APPLN. INFO.: IT 1973-26722 A 19730718

GI For diagram(s), see printed CA Issue.

AB 2-Hydroxy-1-azabenzanthrone (I) [31293-07-9], useful as a dye intermediate, was manufactured in 90-93.8% yield by reaction of the esters II (R = Me or Et) with NH3 in MeOH or H2O containing a strong base and(or) a reducing agent.

IT 31293-07-9P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of, dye intermediates)

RN 31293-07-9 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione (CA INDEX NAME)



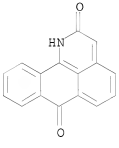
OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L6 ANSWER 80 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1973:406776 CAPLUS
DOCUMENT NUMBER: 79:6776
ORIGINAL REFERENCE NO.: 79:1135a,1138a
TITLE: Vat dye
INVENTOR(S): Boffa, Gioacchino; Crotti, Argento; Pieri, Giampiero; Mangini, Angelo; Tundo, Antonio
PATENT ASSIGNEE(S): Montecatini Edison S.p.A.
SOURCE: Ital., 15 pp.
CODEN: ITXXAX
DOCUMENT TYPE: Patent
LANGUAGE: Italian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

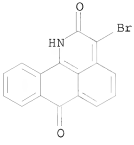
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IT 869691		19700819	IT	19690805

AB 6,15-Dimethoxy-5,14-diazaisoviolanthrone (I) [31715-57-8] was prepared and used to dye cellulosic fibers in bright blue shades. I was prepared from 1-aza-2-hydroxybenzanthrone via 1-aza-2-hydroxy-3-bromobenzanthrone [31715-46-5], 1-aza-2-methoxy-3-bromobenzanthrone [31715-55-6], and 3,3'-thiobis(1-aza-2-methoxybenzanthrone) [31715-56-7] by known synthetic methods.

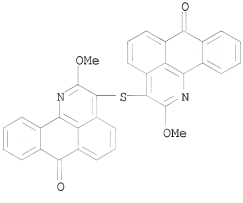
IT 31293-07-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(bromination of)
RN 31293-07-9 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione (CA INDEX NAME)



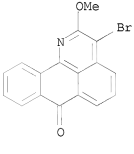
IT 31715-46-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(methylation of)
RN 31715-46-5 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 3-bromo- (CA INDEX NAME)



IT 31715-56-7
RL: USES (Uses)
(reaction with potassium hydroxide)
RN 31715-56-7 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3,3'-thiobis[2-methoxy- (CA INDEX NAME)



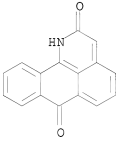
IT 31715-55-6
RL: USES (Uses)
(reaction with sodium sulfide)
RN 31715-55-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-methoxy- (CA INDEX NAME)



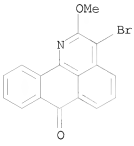
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L6 ANSWER 81 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1973:84298 CAPLUS

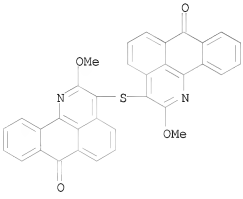
DOCUMENT NUMBER: 78:84298
ORIGINAL REFERENCE NO.: 78:13453a,13456a
TITLE: New heterocyclic structures. Synthesis of 2-hydroxy-1-azabenzanthrone and some related compounds
AUTHOR(S): Boffa, Gioacchino; Pieri, Giampiero; Mazzaferro, Nicola
CORPORATE SOURCE: Cent. Ric. Chim. Org., Soc. Montedison, Novara, Italy
SOURCE: Gazzetta Chimica Italiana (1972), 102(9), 697-708
CODEN: GCITA9; ISSN: 0016-5603
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB 1-4-Naphthoquinone (I) underwent a Diels-Alder reaction with Me 1 3,5-hexadienoate (II) in refluxing EtOH to give Me 1'β,4',4'aβ,9',9'aβ,10'-hexahydro-9'10'-dioxaanthrylacetate (III), whereas I and II in Cl(CH2)2Cl containing AlCl3 at 50° gave 1',4'-dihydro-9',10'-dihydroxyanthrylacetic acid lactone (IV). Treatment of III or IV with NH3 and MeOH under N, followed by addition of aqueous KOH gave 2-hydroxy-7H-dibenzo[de,h]quinolin-7-one (V), which was brominated in concentrated H2SO4 at 50° and then reacted with Na2S in refluxing DMF for 3 hr to yield 3,3'-thiobis[2-methoxy-7H-dibenzo[de,h]-quinolin-7-one (VI). Cyclization of VI in Me2CHCH2OH containing KOH at 120-5° under N for 4 hr gave the benzo[b]napht[1',2',3':1,8]isoquino[5,-4-hi]thebenidine-9,18-dione derivative (VIII).
IT 31293-07-9P 31715-55-6P 31715-56-7P
40338-68-9P 40338-69-0P 40338-70-3P
40338-72-5P 40338-73-6P 40338-74-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 31293-07-9 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione (CA INDEX NAME)



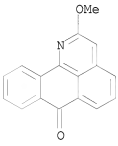
RN 31715-55-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-methoxy- (CA INDEX NAME)



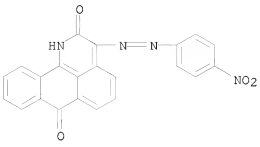
RN 31715-56-7 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3,3'-thiobis[2-methoxy- (CA INDEX NAME)



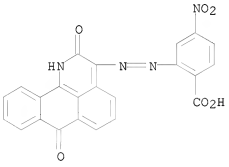
RN 40338-68-9 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-methoxy- (CA INDEX NAME)



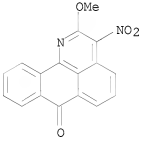
RN 40338-69-0 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 3-[2-(4-nitrophenyl)diazenyl]- (CA INDEX NAME)



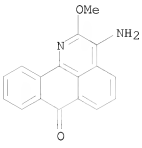
RN 40338-70-3 CAPLUS
CN Benzoic acid, 2-[2-(2,7-dihydro-2,7-dioxo-1H-dibenzo[de,h]quinolin-3-yl)diazenyl]-4-nitro- (CA INDEX NAME)



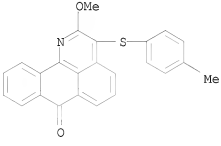
RN 40338-72-5 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-methoxy-3-nitro- (CA INDEX NAME)



RN 40338-73-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-amino-2-methoxy- (CA INDEX NAME)



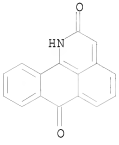
RN 40338-74-7 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 2-methoxy-3-[(4-methylphenyl)thio]- (CA INDEX NAME)



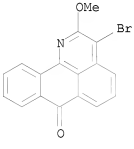
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L6 ANSWER 82 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1973:59763 CAPLUS
DOCUMENT NUMBER: 78:59763
ORIGINAL REFERENCE NO.: 78:9475a,9478a
TITLE: New, chlorine-fast, blue vat dyes
AUTHOR(S): Boffa, G.; Gemini, V.
CORPORATE SOURCE: Cent. Ric. Chim. Org., Montecatini Edison S.p.A., Novara, Italy
SOURCE: Textilveredlung (1972), 7(12), 810-16
CODEN: TXLVAE; ISSN: 0040-5310
DOCUMENT TYPE: Journal
LANGUAGE: German
AB Vat dyes (I, R = alkyl) prepared from 2-hydroxy-1-azabenzanthrone (II, R = R1 = H)(III) [31293-07-9] are described. One of these dyes, Romanthrene Blue 1324 (I, R = Me)(IV) [31715-57-8], has a distinctive, brilliant turquoise-blue shade, a high color value and shows little shade change on cotton with dyebath temperature or concentration, and is resistant to overoxidn, to chlorine bleach and to light. IV is prepared by brominating III (prepared by Diels-Alder condensation 1,4-naphthoquinone and CH2:CHCH:CHCH2CO2Me and treatment of the product with NH3, KOH, and air), treating the product with Me2SO4 to give 3-bromo-2-methoxy-1-azabenzanthrone (II, R = Me, R1 = Br)(V) [31715-55-6], condensing V with Na2S, and heating the isolated sulfide with iso-BuOH containing KOH. The other I are similarly prepared The properties of IV are compared with those of several indanthrones.
IT 31293-07-9 31715-55-6
RL: USES (Uses)

(vat dyes from)
RN 31293-07-9 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione (CA INDEX NAME)



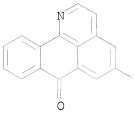
RN 31715-55-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L6 ANSWER 83 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1971:420153 CAPLUS
DOCUMENT NUMBER: 75:20153
ORIGINAL REFERENCE NO.: 75:3223a,3226a
TITLE: Aromatic demethoxylation in the cyclization of 3-(β-dialkoxyarylethylamino)phthalides to 2,3-dihydro-7H-dibenzo[da,h]quinolines
AUTHOR(S): Walker, Gordon Northrop; Kempton, Robert J.
CORPORATE SOURCE: Chem. Res. Dep., CIBA Pharm. Co., Inc., Summit, NJ, USA
SOURCE: Journal of Organic Chemistry (1971), 36(10), 1413-16
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 75:20153
GI For diagram(s), see printed CA Issue.
AB Whereas polyphosphoric acid cyclization of 3-(β-phenylethylamino)phthalide gives 5,6,8,12b-tetrahydro-8-isoindolo[1,2-α]isoquinolone (I) similar cyclizations of 3,4-methylenedioxyphenyl and 3,4-dimethoxyphenyl (I) analogs proceed in the direction of resp. 5,6-dialkoxy-2,3-dihydro-7-dibenzo[de,h]quinolones. In I closure, the 6-methoxy group in the tetracyclic base is partly demethylated and for the most part lost, giving 5-methoxy-2,3-dihydro-7-dibenzo[de,h]quinolone (II)

as the major product, together with monophenolic congener.
IT 28399-74-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 28399-74-8 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 5-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 19 THERE ARE 19 CAPLUS RECORDS THAT CITE THIS RECORD (19 CITINGS)

L6 ANSWER 84 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1971:113239 CAPLUS
DOCUMENT NUMBER: 74:113239
ORIGINAL REFERENCE NO.: 74:18330h,18331a
TITLE: Diazaisoviolanthrone vat dyes
INVENTOR(S): Boffa, Gioacchino; Crotti, Argento; Pieri, Giampiero; Mangini, Angelo; Tundo, Antonio
PATENT ASSIGNEE(S): Montecatini Edison S.p.A.
SOURCE: Ger. Offen., 19 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2038637	A	19710211	DE 1970-2038637	19700804
DE 2038637	B2	19790712		
DE 2038637	C3	19800313		
SU 566529	A3	19770725	SU 1970-1454603	19700728
NL 7011367	A	19710209	NL 1970-11367	19700731
NL 169604	B	19820301		
NL 169604	C	19820802		
DK 134409	B	19761101	DK 1970-3967	19700731
FR 2056986	A5	19710507	FR 1970-28631	19700803
FR 2056986	B1	19730427		
CS 166730	B2	19760329	CS 1970-5418	19700803
CA 944764	A1	19740402	CA 1970-89919	19700804
US 3678053	A	19720718	US 1970-69519	19700805
GB 1318287	A	19730523	GB 1970-37756	19700805
CH 540319	A	19730928	CH 1970-11803	19700805
RO 58337	A1	19750815	RO 1970-64152	19700805

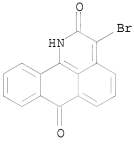
PRIORITY APPLN. INFO.: IT 1969-20581 A 19690805
IT 1970-25757 A 19700610

GI For diagram(s), see printed CA Issue.
AB The 6,15-dialkoxy-5,14-diazaisoviolanthrones I (R = Me, Et, Pr, Bu, or iso-Bu) are prepared from 1-aza-2-hydroxybenzanthrone (II) and used as vat dyes for cellulose fibers. To prepare I (R = Et), II is brominated in

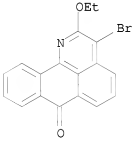
H2SO4, alkylated with Et2SO4 to give 1-aza-2-ethoxy-3-bromobenzanthrone, treated with Na2S to give 3,3'-thiobis(1-aza-2-ethoxybenzanthrone), treated with Na bisulfite in iso-BuOH containing KOH, and treated with a mixture of PhNO2, p-MeC6H4SO3Et, and Na2CO3 to give I (R = Et).

IT 31715-46-5P 31715-47-6P 31715-48-7P
31715-49-8P 31715-50-1P 31715-52-3P
31715-53-4P 31715-55-6P 31715-56-7P
31771-18-3P, 7H-Dibenzo[de,h]quinolin-7-one, 3,3'-thiobis[2-propoxy- 31771-20-7P, 7H-Dibenzo[de,h]quinolin-7-one, 3,3'-thiobis[2-butoxy-
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)

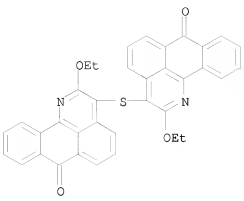
RN 31715-46-5 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione, 3-bromo- (CA INDEX NAME)



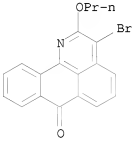
RN 31715-47-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-ethoxy- (CA INDEX NAME)



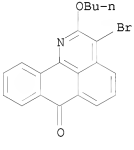
RN 31715-48-7 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3,3'-thiobis[2-ethoxy- (CA INDEX NAME)



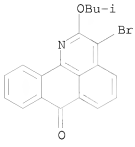
RN 31715-49-8 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-propoxy- (CA INDEX NAME)



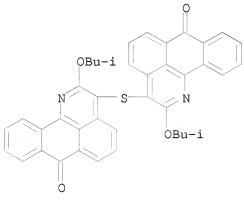
RN 31715-50-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-butoxy- (CA INDEX NAME)



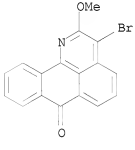
RN 31715-52-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-(2-methylpropoxy)- (CA INDEX NAME)



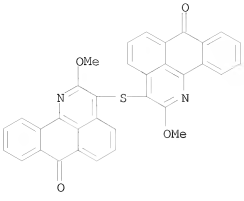
RN 31715-53-4 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3,3'-thiobis[2-isobutoxy- (8CI) (CA INDEX NAME)



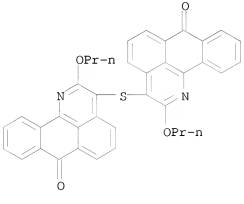
RN 31715-55-6 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo-2-methoxy- (CA INDEX NAME)



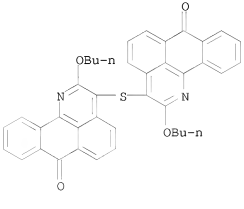
RN 31715-56-7 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3,3'-thiobis[2-methoxy- (CA INDEX NAME)



RN 31771-18-3 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3,3'-thiobis[2-propoxy- (CA INDEX NAME)



RN 31771-20-7 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3,3'-thiobis[2-butoxy- (CA INDEX NAME)

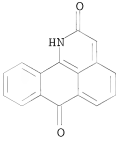


OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L6 ANSWER 85 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1971:99877 CAPLUS
DOCUMENT NUMBER: 74:99877
ORIGINAL REFERENCE NO.: 74:16257a,16260a
TITLE: 1-Aza-2-hydroxybenzanthrone
INVENTOR(S): Boffa, Gioacchino; Chiusoli, Gian P.
PATENT ASSIGNEE(S): Montecatini Edison S.p.A.
SOURCE: Ger. Offen., 7 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2010665	A	19710218	DE 1970-2010665	19700306
DE 2010665	C2	19811015		
NL 7002934	A	19700909	NL 1970-2934	19700302
NL 160594	B	19790615		
BE 746871	A	19700907	BE 1970-746871	19700305
FR 2037639	A5	19701231	FR 1970-7837	19700305
GB 1256482	A	19711208	GB 1970-1256482	19700305
US 3912739	A	19751014	US 1970-16989	19700305
CH 525891	A	19720731	CH 1970-525891	19700306

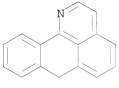
PRIORITY APPLN. INFO.: IT 1969-13784 A 19690307
GI For diagram(s), see printed CA Issue.
AB The title compound (I) useful as an intermediate for the synthesis of azo and vat dyes was prepared from 1,4-naphthoquinone (II) via 1-methoxycarbonylmethyl-1,4,4a,9a-tetrahydroanthra-quinone (III) in 2 steps. Thus, refluxing 34.3 g II and 27.4 g CH2:CHCH:CHCH2CO2Me in 99% EtOH under N gave 51 g III which, on refluxing 3 days with NH3-saturated anhydrous MeOH gave 34.6 g I.
IT 31293-07-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 31293-07-9 CAPLUS
CN 1H-Dibenzo[de,h]quinoline-2,7-dione (CA INDEX NAME)



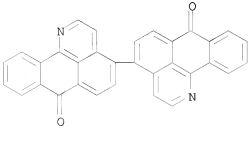
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L6 ANSWER 86 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1959:72570 CAPLUS
DOCUMENT NUMBER: 53:72570
ORIGINAL REFERENCE NO.: 53:13148g-i,13149a
TITLE: Dyes from benzoyl-3-azabenzanthrone by alkali fusion

and from benzoyl-1-bromobenzoyl-3-azabenzanthrone by alkali fusion after sodium disulfide treatment
AUTHOR(S): Yokote, Masao
CORPORATE SOURCE: Nippon Univ., Tokyo
SOURCE: Kogyo Kagaku Zasshi (1957), 60, 1045-8
CODEN: KGKZA7; ISSN: 0368-5462
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Benzoyl-3-azabenzanthrone (I) (0.6 g.), m. 179°, was fused 1 hr. at 110-20° with 9.5 cc. EtOH and 6.2 g. KOH to give, by adding into H2O, oxidizing with air and dissolving in EtOH, crude 2,2'-dibenzanthronyl (II), m. approx. 401-15°. II (0.268 g.) was fused with 0.018 g. KOH and 0.697 g. AcOK at 280° 1 hr., poured into H2O, oxidized with air, extracted with alkali solution, HCl, EtOH, AcOH, and PHCl, and purified by making a leuco compound to give 0.148 g. isoviolanthrone A (III). The absorption spectra of the product and pure III are compared. Alkali fusion of I successively at 110-270° gave III in a higher yield. Benzoyl-1-bromo-3-azabenzanthrone (0.37 g.), m. 248°, was treated 11 hrs. with 3 g. Na2S and 0.41 g. S at 150-60°, washed with boiling H2O and hot EtOH, and dried to give 0.244 g. yellow-brown product, presumably benzoyl-1(or 1')-thiadibenzoanthronyl. The product (0.155 g.) was then fused 1 hr. with 0.99 g. KOH at 140°, washed with H2O, oxidized with air, washed further with aqueous alkali, H2O, hot AcOH, and hot PhCl to yield 0.117 g. dark violet product, which was identified as III by absorption spectra.
IT 200-26-0, 7H-Dibenzo[de,h]quinoline
(derivs., dyes from)
RN 200-26-0 CAPLUS
CN 7H-Dibenzo[de,h]quinoline (CA INDEX NAME)



IT 122388-50-5P, [4,4'-Bi-7H-dibenzo[de,h]quinoline]-7,7'-dione
RL: PREP (Preparation)
(preparation of)
RN 122388-50-5 CAPLUS
CN [4,4'-Bi-7H-dibenzo[de,h]quinoline]-7,7'-dione (CA INDEX NAME)



L6 ANSWER 87 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1958:1842 CAPLUS

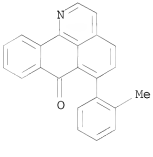
DOCUMENT NUMBER: 52:1842
ORIGINAL REFERENCE NO.: 52:342d-g
TITLE: Syntheses in the field of derivatives of pyrene
AUTHOR(S): Arbuzov, B. A.; Grechkin, N. P.
SOURCE: Izvest. Kazan. Filiala Akad. Nauk S.S.S.R., Ser. Khim. Nauk (1955), (No. 2), 31-7
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB To RMgBr from 10 g. ω-BrC6H4Me was added 6 g. 1-aza-7-benzanthrone yielding, after refluxing 0.5 hr. in Et2O and 1 hr. in C6H6 followed by the usual treatment with aqueous AcOH and steam distillation, 60% 6-o-tolyl-1-aza-7-benzanthrone, m. 179-80° (BuOAc). This heated 15 min. at 375-90° and distilled, b2.6 385-435°, gave 18% 4,5:7,8-dibenzo-3-azapyrene, m. 255-7° (C6H6). Reduction of cyclohexanone with Al-Hg gave 1,1'-dihydroxybicyclohexyl, which dehydrated with 10% H2SO4 to 1,1'-bicyclohexenyl, which treated with 1,4-naphthoquinone gave dodecahydrodibenzanthraquinone, which oxidized with O in BuOH in the presence of alkali gave octahydro-1,2:3,4-dibenzanthraquinone, m. 239-42°. This (24.5 g.) added to PhMgBr from 125 g. PhBr at 5-10°, kept 1 hr. at room temperature, and refluxed 5 hrs. gave after aqueous treatment 42% octahydro-1,2:3,4-dibenzo-8,10-dihydroxy-9,10-diphenylanthracene, m. 262-4° (EtOH-C6H6). This pyrolyzed in a CO2 stream at 400° 3 hrs. in the presence of powdered Cu gave 0.6% product, m. 246-7° (after chromatographic purification on SiO2), which contained 88.8% C and 4.35% H. Heating 54 g. 9-benzoylphenanthrene with 200 g. AlCl3 and 55 g. NaCl 4.5 hrs. at 145-50° gave after treatment with aqueous HCl 2.6 g. 5,6-benzo-12-naphthacenone, m. 214-15° (BuOAc). This with excess ω-BrC6H4Me gave after refluxing in Et2O and finally in C6H6 1.5 hrs. a low yield of 5,6-benzo-11-ω-tolyl-12-naphthacenone, m. 187-90° (AcOH). The compds. were prepared for studies of blastomogenic activity.

IT 114929-49-6P, 7H-Dibenzo[de,h]quinolin-7-one, 6-o-tolyl-
RL: PREP (Preparation)
(preparation of)

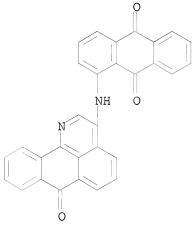
RN 114929-49-6 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one, 6-(2-methylphenyl)- (CA INDEX NAME)



L6 ANSWER 88 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1956:54545 CAPLUS
DOCUMENT NUMBER: 50:54545
ORIGINAL REFERENCE NO.: 50:10411h-i,10412d-g
TITLE: Nitrogen analog of Indanthrene Olive Green B from benzoyl-3-azabenzanthrone
AUTHOR(S): Yokote, Masao; Kobayashi, Seinosuke
CORPORATE SOURCE: Nippon Univ., Tokyo

SOURCE: Kogyo Kagaku Zasshi (1955), 58, 677-8
CODEN: KGKZA7; ISSN: 0368-5462
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB cf. preceding abstract A mixture of 0.250 g. Bz-1-bromo-Bz-3-azabenzanthrone, m. 253°, 0.134 g. 1-aminoanthraquinone, 0.240 g. NaOAc, 0.035 g. CuCl2, and 5.250 g. PhNO2 was refluxed on an oil-bath for 12 hrs., washed and extracted with hot EtOH and hot glacial AcOH, boiled with acidic H2O, and the residue was boiled with o-dichlorobenzene to give an orange-red precipitate (0.144 g.) and violet soluble substance (0.072 g.). The precipitate was subjected
to alkali fusion with 8.0 g. KOH, 6.4 g. PhOH, and 1.6 g. EtOH at 135-145° for 2 hrs., followed by boiling with 100 cc. H2O, acidifying, and filtering, to give a green dye (0.142 g.). The purification with PhCl gave a green-blue dye (0.034 g.) which was presumed to have structure I on the bases of similarity of absorption spectra and n-values with those of Indanthrene Olive Green B.
IT 57669-40-6, Anthraquinone, 1-(7-oxo-7H-dibenzo[de,h]quinolin-3-ylamino)- (dye from)
RN 57669-40-6 CAPLUS
CN 9,10-Anthracenedione, 1-[(7-oxo-7H-dibenzo[de,h]quinolin-3-yl)amino]- (CA INDEX NAME)



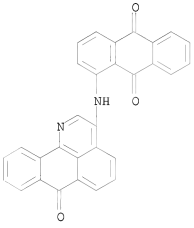
L6 ANSWER 89 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1956:54544 CAPLUS
DOCUMENT NUMBER: 50:54544
ORIGINAL REFERENCE NO.: 50:10411f-h
TITLE: Azo dyes from 8-amino-1-azanthraquinone
AUTHOR(S): Yokote, Masao; Kamata, Toshio
CORPORATE SOURCE: Nippon Univ., Tokyo
SOURCE: Kogyo Kagaku Zasshi (1955), 58, 574-6
CODEN: KGKZA7; ISSN: 0368-5462
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C.A. 49, 10291d. 8-Amino-1-azanthraquinone (I) (1 mole), dissolved in concentrated H2SO4 and then mixed under cooling with 1.1 mole NaNO2 and 25% NaOH
solution until weakly acid, was coupled with 1.1 mole 2-naphthol (II) (with

addition of 0.8 cc. 10% NaOH solution, 0.4 g. Na2CO3, and 15 cc. H2O) by stirring at 5-10° for 24 hrs., followed by heating on a water bath for 1 hr. The purified azo compound, recrystd. from "tetrachloroacetylene" (III), was dark red-violet needles, m. >300°, soluble in hot EtOH, slightly soluble in cold EtOH or xylene, insol. in H2O, and dyed acetate rayon to orange-red. A similar azo dye was obtained by coupling 1-aminoanthraquinone (IV) with II. The absorption spectra of both compds. in the range of 3000-6000 A. were recorded; the two compds. showed a sharp maximum at approx. 5250 A. and another lower maximum at approx. 4400 A. Similarly, 1 mole I and 2.3 moles naphthol AS (V) gave a dye, dark-red needles, m. 303°, recrystd. from III, soluble in III, PhNO2, or PhCl, slightly soluble in C6H6 or EtOH, and dyed acetate rayon to red-violet. The azo dye from IV and V was also prepared

IT 57669-40-6, Anthraquinone, 1-(7-oxo-7H-dibenzo[de,h]quinolin-3-ylamino)- (dye from)

RN 57669-40-6 CAPLUS

CN 9,10-Anthracenedione, 1-[(7-oxo-7H-dibenzo[de,h]quinolin-3-yl)amino]- (CA INDEX NAME)



L6 ANSWER 90 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1955:42968 CAPLUS

DOCUMENT NUMBER: 49:42968

ORIGINAL REFERENCE NO.: 49:8280a-e

TITLE: Synthesis of 9,18-diazaisoviolanthrone

AUTHOR(S): King, J.; Ramage, G. R.

CORPORATE SOURCE: Huddersfield Tech. Coll., UK

SOURCE: Journal of the Chemical Society (1954) 936-8
CODEN: JCSOA9; ISSN: 0368-1769

DOCUMENT TYPE: Journal

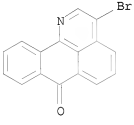
LANGUAGE: Unavailable

AB o-C6H4(CO)2NCH2Cl (I) (8 g.) and 3.8 g. anthracene condensed with AlCl3 in CS2 gave 1.15 g. 9,10-bis(phthalimidomethyl)anthracene (II), m. above 360°. I (24 g.), 11.4 g. anthracene, and ZnCl2 in PhNO2 similarly gave 10.9 g. II. II with CrO3-AcOH gave anthraquinone, m. 285°. II (8.6 g.) added to AlCl3-NaCl at 130-40°, and the mixture hydrolyzed and extracted with hot 10% HCl gave 2.48 g. 3,9-diphenyl-2,8-diazaperylene-2',2''-dicarboxylic acid di-HCl salt dihydrate (III); the mother liquors with NH3 yielded 0.05 g. free anhydrous acid (IIIa), m. above 360°. III (1 g.) treated with SOCl2 and the

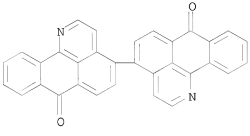
product refluxed with EtOH gave 0.94 g. di-Et ester of IIIa, m. 276°. 1-Aza-meso-benzanthrone (IV), PhNO2, Br, and iodine refluxed 5 h., gave 91% 3-bromo-1-aza-meso-benzanthrone (V), m. 256°. V (1 g.) oxidized with CrO3-AcOH gave 1-anthraquinonecarboxylic acid; Et ester, m. 167°. IV (1 g.) treated with alc. KOH and H2O2, the mixture extracted with EtOH, and the 0.57 g. residue twice sublimed at 400/10-3 mm., gave a product believed to be 4,4'-di-1-aza-meso-benzanthronyl (VI), m. above 360°. III (0.72 g.) heated with fuming H2SO4 and the product sublimed at 450/10-3 mm. gave 0.18 g. 9,18-diazaisoviolanthrone (VII), absorption maximum (concentrated H2SO4) 2500, 2930, and 6630 A. VII dissolved in hot dilute NaOH containing Na2S2O4 gave a blue vat; air or H2O2 precipitated VII. III (0.2 g.) heated with P2O5-H3PO4, the product made alkaline with NaOH, Na2S2O4 added, and the solution oxidized, gave 0.08 g. VII. IV heated with KOH-KOAc at 240-250°, then oxidized, gave 0.30 g. VII. V (0.45 g.) and VI (0.2 g.) similarly gave 0.25 g. and 0.11 g. VII, resp.

IT 57669-37-1P, 7H-Dibenzo[de,h]quinolin-7 one, 3-bromo-
122388-50-5P, [4,4'-Bi-7H-dibenzo[de,h]quinoline]-7,7'-dione, meso-
RL: PREP (Preparation)
(preparation of)

RN 57669-37-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo- (CA INDEX NAME)



RN 122388-50-5 CAPLUS
CN [4,4'-Bi-7H-dibenzo[de,h]quinoline]-7,7'-dione (CA INDEX NAME)



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L6 ANSWER 91 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1950:26123 CAPLUS
DOCUMENT NUMBER: 44:26123
ORIGINAL REFERENCE NO.: 44:5112c-i,5113a-i,5114a
TITLE: Anthraquinone vat dyes
INVENTOR(S): Holbro, Theodor; Kern, Walter; Sutter, Paul

PATENT ASSIGNEE(S): C I B A Ltd.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2459941		19490125	US 1944-538540	19440602

GI For diagram(s), see printed CA Issue.

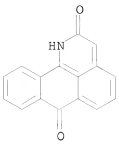
AB Vat dyes for dyeing and printing animal and vegetable fibers per se or as leuco ester salts, having the general formula: RNHCO(H2N)Aq(NH2)CONHR (wherein Aq stands for an anthraquinone radical carrying both -CONHR groups in the β-position and both NH2 groups in the α-position ortho thereto, and wherein each R stands for a radical of a vattable compound containing a single anthraquinone nucleus) are obtained by causing anthraquinone carboxylic acids containing at least 2 carboxyl groups of which one group is in the β-position, to react with amines of which at least 1 amine contains a radical consisting of at least 2 rings. 2,6-Anthraquinonedicarboxylic acid chloride 16.7 is heated to 150-60° and 34.2 parts 1-amino-5-benzamidoanthraquinone (I) in 750 parts o-C12C6H4 added. After 2 hrs.' stirring at 150-60° N,N'-bis(5-benzamido-1-anthraquinonyl)-2,6-anthraquinonedi-carboxamide (II) was obtained as a yellow powder. It dyes cotton yellow. I and 2,7-anthraquinonedicarboxylic acid chloride gave the 2,7-isomer of II which also dyes cotton yellow. 1,5-Dichloro-2,6-anthraquinonedicarboxylic acid and I gave the 1,5-dichloro analog of II which dyes cotton reddish yellow. I and 1,5-dinitro-2,6-anthraquinonedicarboxylic acid chloride give the 1,5-dinitro analog of II. From a black olive vat in which the 2 nitro groups are reduced to amino groups, cotton is dyed bluish red-brown shades. 1,5-Dinitro-2,6-anthraquinonedicarboxylic acid chloride reacts with the following amines to give dyes which color cotton in the color given: 1-aminoanthraquinone (bordeaux), 2-amino isomer (bluish bordeaux), 1-amino-4-benzamidoanthraquinone (blue bordeaux), 1-amino-8-benzamidoanthraquinone (bluish red-brown), 1-amino-5-benzamido-8-methoxyanthraquinone (yellow bordeaux), 1-amino-5-acetamidoanthraquinone (bluish red-brown), 1-amino-5-(o-chlorobenzamido)anthraquinone (bluish red-brown), (the m- and p-isomers give the same color), 1-amino-5-(p-methoxybenzamido)-anthraquinone (bordeaux), 1-amino-5-cinnamoylaminoanthraquinone (bluish red-brown), 1-amino-4-methoxyanthraquinone(bordeaux), 1-amino-4-anilinoanthraquinone (blue-violet), 1-amino-4-chloroanthraquinone (bluish bordeaux), 5-chloro isomer (bordeaux), 1-amino-6(and 7)-chloroanthraquinone (mixture) (bluish bordeaux), 4-aminoanthraquinone-2,1(N),1',2'(N)-benzacridone (bluish violet), 4-amino-4'-chloroanthraquinone-2,1(N),1',2'(N)-benzacridone (blue-violet), 5'-chloro isomer (blue-violet), 4-amino-3',5'-dichloroanthraquinone-2,1(N),1',2'(N)-benzacridone (blue-violet), 5-aminoanthraquinone-2,1-(N),1',2'(N)-benzacridone (blue bordeaux), III (olive gray), 1-amino-5-(3-pyridylcarbonylamino)anthraquinone (bluish red-brown), and aminochrysoquinone (red-brown). I in o-C12C6H4 and 1,5-diamino-2,6-anthraquinonedicarboxylic acid chloride give 1,5-diamino-N,N'-bis(5-benzamido-1-anthraquinonyl)-2,6-anthraquinonedicarboxamide (IV) which dyes cotton bluish red-brown. 1-Amino-4-benzamidoanthraquinone (V) in PhNO2 and 1,5-diamino-2,6-anthraquinonedicarboxylic acid chloride gives a black dye on cotton. When the following amines replace V other colors on cotton are obtained (color in parenthesis): 1-amino-4-methoxyanthraquinone (bordeaux), 1-amino-4-anilinoanthraquinone (blue-violet),

4-aminoanthraquinone-2,1(N),1',2'(N)-benzacridone (blue-violet), 5-amino isomer (bluish bordeaux), and 4-amino-N-methyl-1,9-anthrapyridone (bordeaux). I in PhNO2 and 1,5-dinitro-2,6-anthraquinonedicarboxylic acid chloride stirred for 2 hrs. at 150-60° and a stream of NH3 introduced for 2 hrs. gives IV. I can be replaced by the following amines: 5-amino-1,9-pyrazoleanthrone (bordeaux), 4-amino-N-methyl-1,9-anthrapyridone (bluish bordeaux), aminodibenzanthrone (green-black), aminoisodibenzanthrone (navy blue), and aminopyranthrone (blackish brown). V in PhNO2 and 1,8-diamino-2,7-anthraquinonedicarboxylic acid chloride give 1,8-diamino-N,N'-bis(4-benzamido-1-anthraquinonyl)-2,7-anthraquinonedicarboxamide which is blue-violet on cotton. V and 1,8-dinitro-2,7-anthraquinonedicarboxylic acid chloride give the 1,8-dinitro isomer also blue-violet on cotton. I 8.6, 1,5-diamino-2,6-anthraquinonedicarboxylic acid chloride 9.1, pyridine 2.5, and PhNO2 600 parts are stirred at 45-55° until all reactants have reacted, heated to 150°, 10 parts PhNH2 added, and then stirred at 150-60° for 2 hrs. to give 1,5-diamino-N-(5-benzamido-1-anthraquinonyl)-N'-phenyl-2,6-anthraquinonedicarboxamide (bluish red-brown on cotton). I, 1,5-dinitro-2,6-anthraquinonedicarboxylic acid chloride, and aminopyrene give N-(5-benzamido-1-anthraquinonyl)-1,5-dinitro-N'-1-pyrenyl-2,6-anthraquinonedicarboxamide, bluish red-brown shades on cotton. 1,5-Dimethoxy-2,6-anthraquinonedicarboxylic acid chloride and I in o-C12C6H4 give the 1,5-dimethoxy analog of II which dyes cotton yellow. 1-Amino-2,4-anthraquinonedicarboxylic acid and I give 1-amino-N,N'-bis(5-benzamido-1-anthraquinonyl)-2,4-anthraquinonedicarboxamide which dyes cotton yellow-red shades. 2,3-Diaminoanthraquinone in PhNO2 is heated to 150-60°, 1,5-dinitro-2,6-anthraquinonedicarboxylic acid chloride added, and the mixture boiled 2 hrs. to give 2,6-bis(5,10-dioxo-1H-anthr[2,3]imidazol-2-yl)-1,5-dinitroanthraquinone which dyes cotton yellow-brown. 2-Amino-3-hydroxyanthraquinone and 1,5-diamino-2,6-anthraquinonedicarboxylic acid chloride give 1,5-diamino-2,6-bis(5,10-dioxoanthr[2,3]oxazol-2-yl)anthraquinone, violet on cotton. 1-Mercapto-2-aminoanthraquinone in Cl3C6H3 and 2,6-anthraquinonedicarboxylic acid chloride give 2,6-bis(6,11-dioxoanthra[2,1]thiazol-2-yl)anthraquinone, yellow on cotton. Similarly, the 1,5-dinitro analog was prepared from 1,5-dinitro-2,6-anthraquinonedicarboxylic acid chloride. It dyes cotton violet-brown shades. 2-Amino-3-bromoanthraquinone and 1,5-diamino-2,6-anthraquinonedicarboxylic acid give 1,5-diamino-2,6-bis(5,10-dioxoanthr[2,3]thiazol-2-yl)anthraquinone, blue-violet on cotton. 1-Aminoanthraquinone and 1,5-diamino-4,8-dibromo-2,6-anthraquinonedicarboxylic acid give 1,5-diamino-4,8-dibromo-N,N'-di-1-anthraquinonyl-2,6-anthraquinonedicarboxamide, bordeaux on cotton. 1,5-Diamino-N,N'-bis(4-benzamido-1-anthraquinonyl)-2,6-anthraquinonedicarboxamide gives gray shades on cotton. The intermediate anthraquinonedicarboxylic acids were also prepared

IT 31293-07-9, 7H-Dibenzo[de,h]quinoline-2,7(1H)dione (dyes)

RN 31293-07-9 CAPLUS

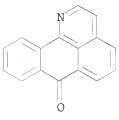
CN 1H-Dibenzo[de,h]quinoline-2,7-dione (CA INDEX NAME)



L6 ANSWER 92 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1937:18663 CAPLUS
DOCUMENT NUMBER: 31:18663
ORIGINAL REFERENCE NO.: 31:2616b-c
TITLE: Leuco derivatives
PATENT ASSIGNEE(S): I. G. Farbenindustrie AG
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 803304		19360928	FR	19360312

AB Leuco derivs. soluble in water, some of which are also leuco esters, of compds. derived from anthraquinone from the fact that they contain a ring in the 1,9-position are prepared by treating such compds. by means of SO3 in the presence of a basic diluent, e. g., pyridine and a metal, e. g., Cu and as far as possible in the absence of moisture. Examples of compds. are benzanthrones, bz-1-, bz-2- and bz-3-azabenzanthrones, anthrapyrimidines, anthradipyrimidines, anthrapyrimidones, anthrapyridones, 1,9-pyrazoleanthrones, 1,9-indoleanthrones, 1,9-thiazoleanthrones, 1,9-selenazoleanthrones, arylamino, 1,9-anthrapyrimidines, acylaminoanthrapyridones and thiazole- and pyrazole-anthronecarboxylic amides.
IT 65543-67-1, 7-Dibenzo[de,h]quinolin-7-one (derivs.)
RN 65543-67-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



L6 ANSWER 93 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1937:18651 CAPLUS
DOCUMENT NUMBER: 31:18651
ORIGINAL REFERENCE NO.: 31:2614g-i,2615a

TITLE: Amides
PATENT ASSIGNEE(S): I. G. Farbenindustrie AG
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

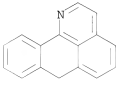
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 803227		19360925	FR	00000000

AB Amides of aza derivs. are prepared by heating polycyclic amino-aza derivs. containing only N and C as cyclic elements with esters free from aza groups derived from enolizable ketocarboxylic acids or with enolizable ketocarboxylic esters of aza compds., including cyclic amino derivs., containing at least 1 atmospheric of H capable of reaction fixed to N. Thus, 9-amino-4-azaphenanthrene (I) is heated with Et acetylacetate giving a product containing -NHCOCH2COCH3 in the 9 position. 10-Amino-4-azaphenanthrene is heated with terephthaloyl-bis-acetic ester in C6H3Cl3, giving a product containing 2 azaphenanthrene radicals. Examples are also given of compds. prepared from monoamino-bz-3-aza-benzanthrone (by nitrating bz-3-aza-benzanthrone with HNO3 in H2SO4 and reducing with Na2S), monoamino-6,12-diazachrysene (by nitrating 6,12-diazachrysene and reducing), monoaminodiazatriphenylene (by treating I with glycerol and H2SO4, nitrating and reducing), 10-tetrazapyrene (from 2,4-diamino-1,9-anthrapyrimidine by means of formamide), monoamino-5,11-dimethyl-4,10-diazaperylene (by nitrating 5,11-dimethyl-4,10-diazaperylene with HNO3 in H2SO4 and reducing), 6-qninolinoylacetic ester (from quinoline-6-carboxylic ester by means of acetylethyl ester and NaOEt in boiling C6H6), 2-amino-6,7-benzo-3,5,8,10-tetrazapyrene and others. The formulas of the compds. obtained are given.

IT 200-26-0, 7-Dibenzo[de,h]quinoline
(derivs.)

RN 200-26-0 CAPLUS

CN 7H-Dibenzo[de,h]quinoline (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L6 ANSWER 94 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1936:65018 CAPLUS
DOCUMENT NUMBER: 30:65018
ORIGINAL REFERENCE NO.: 30:8640d-g
TITLE: Anthrapyrimidonesulfonic acids
INVENTOR(S): Weinand, Klaus
PATENT ASSIGNEE(S): General Aniline Works
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

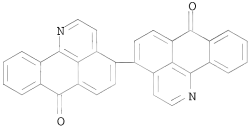
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2056548		19361006	US 1932-642328	19321111

AB Anthrapyrimidonesulfonic acids which dye wool red to violet shades of good fastness are obtained by the reaction of an amide of carbonic acid, such as urethans (methyl- or ethyl-urethan, for example), urea, monoalkylureas, etc., upon a compound of the probable formula 1-H2N-2-HO3S-4-RHNC6H(CO)2C6H4, where R means an alkyl group, such as a Me, Et, Pr, isopropyl, Bu group, or an aryl, aralkyl or hydroaryl group. All the nuclei of these compds. may be substituted by univalent substituents. Anthraquinone derivs. may be applied as starting materials being substituted in the anthraquinone nucleus by Cl or Br, alkyl groups (Me, Et, etc.), hydroxy groups, alkoxy groups, carboxylic acid groups, sulfonic acid groups, etc. Likewise the group R may be substituted in the most various manner, as by the substituents outlined above or by amino, acetamido, carboxylic acid amide, ester groups or thio ether groups, etc. The reaction is performed while heating the reaction components, advantageously to about 150-200° in the presence or absence of a suitable solvent. The best results are generally obtained by the use of a phenol as the solvent. Several examples with details of procedure are given.

IT 122388-50-5P, [4,4'-Bi-7-dibenzo[de,h]quinoline]-7,7'-dione
876475-83-1P, 7-Dibenzo[de, h]quinolin-7-one, 3,3'-thiobis-
RL: PREP (Preparation)
(preparation of)

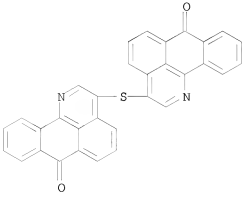
RN 122388-50-5 CAPLUS

CN [4,4'-Bi-7H-dibenzo[de,h]quinoline]-7,7'-dione (CA INDEX NAME)



RN 876475-83-1 CAPLUS

CN 7-Dibenzo[de, h]quinolin-7-one, 3,3'-thiobis- (3CI) (CA INDEX NAME)



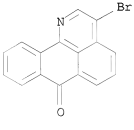
L6 ANSWER 95 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1936:65017 CAPLUS
DOCUMENT NUMBER: 30:65017
ORIGINAL REFERENCE NO.: 30:8640b-d
TITLE: Azabenzanthrone derivatives
PATENT ASSIGNEE(S): I. G. Farbenindustrie AG
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 46443		19360603	FR	

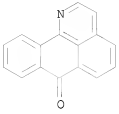
AB Fr. 753,828 (C. A. 28, 1060.3). Organic compds. capable of being used for printing or dyeing are prepared by treating, with condensing agents having an alkaline reaction, azabenzanthrones having the peri positions capable of reacting and in which 1 CH group in the C5H6 ring of the fundamental benzanthrone mol. is replaced by N. Examples are given of compds. prepared from Bz-1-hydroxy-Bz-2-azabenzanthrone (product dyes cotton fast blue-green shades), Bz-3-azabenzanthrone (I) (cf. Fr. 781,562, C. A. 29, 6249.8), mononitro-I, m. 273-4°, amino-I, m. 266-7°, pyridino-I, m. 226-8°, (which is transformed to dipyridino-di-I), 2,2'-di-(Bz-3-azabenzanthronyl) (dyes cotton pale yellow), dinitro-2,2'-di-I, anilido-I, Bz-1-bromo-I, m. 255-6°, (which is transformed to Bz-1, Bz-1'-di-(Bz-3-azabenzanthronyl) sulfide, m. 360°). Cf. C. A. 30, 1069.4.

IT 57669-37-1P, 7-Dibenzo[de, h]quinolin-7-one, 3-bromo-
65543-67-1P, 7-Dibenzo[de, h]quinolin-7-one 122388-50-5P
, [4,4'-Bi-7-dibenzo[de,h]quinoline]-7,7'-dione 876475-83-1P,
7-Dibenzo[de, h]quinolin-7-one, 3,3'-thiobis-
RL: PREP (Preparation)
(preparation of)

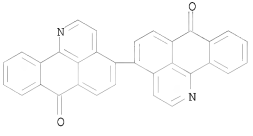
RN 57669-37-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one, 3-bromo- (CA INDEX NAME)



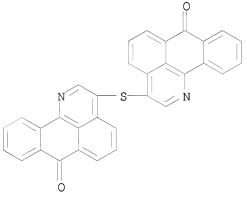
RN 65543-67-1 CAPLUS
CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



RN 122388-50-5 CAPLUS
CN [4,4'-Bi-7H-dibenzo[de,h]quinoline]-7,7'-dione (CA INDEX NAME)



RN 876475-83-1 CAPLUS
CN 7-Dibenzo[de, h]quinolin-7-one, 3,3'-thiobis- (3CI) (CA INDEX NAME)



L6 ANSWER 96 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1935:60910 CAPLUS
DOCUMENT NUMBER: 29:60910
ORIGINAL REFERENCE NO.: 29:8004c-g
TITLE: Nitrogenous condensation products
PATENT ASSIGNEE(S): I. G. Farbenindustrie A.-G.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

GB 431790 19350716 GB 1934-1553 19340116

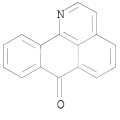
GI For diagram(s), see printed CA Issue.

AB Condensing agents, e. g., AlCl3, FeCl3, SbCl3, ZnCl2, are caused to react with dicarboxylic acid imides corresponding to the formula: CO.A.CO.N-|C|-|C|-B, where A and B are aromatic radicals, B having at least 1 free o-position; of the free linkages attached to the C atoms, at least 2 are satisfied by H and the others may also be thus satisfied, or they may form part of an isocyclic ring system of which the 2 C atoms are members, or they may be satisfied by substituents that permit the formation of a double linkage under the reaction conditions. A new ring closure appears to take place with formation of isoquinoline-carboxylic acid derivs. These may be treated with acid condensing agents to effect further ring closure. Among examples, (1) β-phenylethylphthalimide (from phthalic anhydride and β-phenylethylamine) is treated with NaAl chloride at 160° to give α-phenylisoquinoline-o'-carboxylic acid; treatment of this with fuming H2SO4 gives Bz-3-azabenzanthrone, and (2) the imide from o,o'-diaminobiphenyl and phthalic anhydride is treated with AlCl3 at 200° to give a product of formula Treatment of this with Na-Al chloride at 150° gives flavanthrone.

IT 65543-67-1P, 7-Dibenzo[de, h]quinolin-7-one
RL: PREP (Preparation)
(preparation of)

RN 65543-67-1 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L6 ANSWER 97 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1935:47996 CAPLUS
DOCUMENT NUMBER: 29:47996
ORIGINAL REFERENCE NO.: 29:6249g-i,6250a
TITLE: Condensation products containing nitrogen
PATENT ASSIGNEE(S): I. G. Farbenindustrie AG
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 781562		19350518	FR	19341119

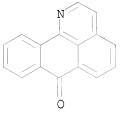
AB Interesting compds. are obtained by causing agents such as anhydrous AlCl3 to act on a dicarboxylic acid imide containing the grouping :N.|C|.|C|.X (X is an aromatic radical with at least one ortho position free) and, if desired, submitting the products obtained to a fresh condensation. Examples are given of the preparation of α-phenylisoquinoline-o'-carboxylic acid, m. 285-7°, its picrate, m. 186° (from β-phenylethylphthalimide), α-phenylphenanthridine-o'-carboxylic

acid, m. 266-7°, Bz-3-azabenzanthrone (I), m. 186°, Bz-3-aza-Bz-1,2-benzobenzanthrone, m. 221°, a product from o,o'-diphthalimidobiphenyl (from o,o'-diaminobiphenyl and phthalic anhydride), 6- or 7-chloro-I, m. 178-86° (from β-phenylethyl-4-chlorophthalimide, m. 112-4°) and 4-chloro-I, m. 168-170° (from 1-phenyl-7-chloroisoquinoline-2'-carboxylic acid, m. 242-3° with decomposition).

IT 65543-67-1, 7-Dibenzo[de, h]quinolin-7-one
(and derivs.)

RN 65543-67-1 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



L6 ANSWER 98 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1935:45022 CAPLUS

DOCUMENT NUMBER: 29:45022

ORIGINAL REFERENCE NO.: 29:5859f-i,5860a

TITLE: Heterocyclic nitrogen compounds

INVENTOR(S): Ebel, Friedrich

PATENT ASSIGNEE(S): I. G. Farbenindustrie AG

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 614196		19350608	DE 1933-I48447	19331130

GI For diagram(s), see printed CA Issue.

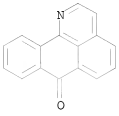
AB Dicarboxylic imides of the formula OC.A.CO.NC''C''B, where A is an aryl residue, B is an aryl residue with at least one free o-position and the free valencies of the C'' atoms are linked to H or to substituents which permit the formation of a double bond, are heated with a condensing agent of the AlCl3 type in the presence or absence of an inert solvent. Condensation to an isoquinoline derivative first occurs, and the product may then undergo further condensation, either directly or after isolation. Thus, β-phenylethylphthalimide (I), heated to 160° for 8 hrs. with a mixture of NaCl and anhydrous AlCl3, yields 1-phenylisoquinoline-2'-carboxylic acid (II), (m. 285-7°, picrate, m. 186°), which yields Bz-3-azabenzanthrone (III), m. 182-3°, when heated to 100° with fuming H2SO4. Other examples are given in which (1) the reaction product of phthalic anhydride (IV) and o-aminobiphenyl yields 9-(o-carboxyphenyl)phenanthridine, m. 266-7°, which yields Bz-1,2-benzo-III, m. 221°, on further condensation; (2) 2,2'-diphthalimidobiphenyl (from IV and 2,2'-diaminobiphenyl) yields a product believed to be V, unmelted at 300°, which yields flavanthrene by further condensation; (3) 4-chloro-I (m. 112-4° from chloro-IV and β-phenylethylamine) yields a chloro-II, m. 230°, which in turn yields a chloro-III, m.

178-86°; (4) 4'-chloro-I (m. 140-2°, from IV and β-4-chlorophenylethylamine) yields 7-chloro-II, m. 242-3° (decomposition), from which a chloro-III, m. 168-70°, is obtained by further condensation.

IT 65543-67-1, 7-Dibenzo[de, h]quinolin-7-one
(and derivs.)

RN 65543-67-1 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L6 ANSWER 99 OF 99 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1935:45021 CAPLUS
DOCUMENT NUMBER: 29:45021
ORIGINAL REFERENCE NO.: 29:5859c-f
TITLE: Azabenzanthrones
PATENT ASSIGNEE(S): I. G. Farbenindustrie AG
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 780041		19350417	FR	

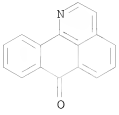
GI For diagram(s), see printed CA Issue.

AB Substitution and condensation products of azabenzanthrones are prepared by causing aldehydes or substances forming aldehydes to react in an aqueous alkaline vat on azabenzanthrones of the formula in which X and Y are atoms of N and Z is CH, C-alkyl, C-aryl or COH, or X is CH or N, Y is N or CH and Z is CH or C-alkyl, or X is CH, Y is N-alkyl and Z is CO, or X is N, Y is NH or N-alkyl and Z is CO. Examples are given of the preparation of a methyl-Bz-1,Bz-3-di-benzyl-Bz-1, Bz-3-di-, 5-amino-2,6-dimethyl-Bz-1, Bz-3-di- (probably), methyl-Bz-3- (m. 208-9°), p-chlorobenzyl-Bz-1,Bz-3-di (m. 204-5°) and ethyl-Bz-1,Bz-3-diazabenzanthrone, m. 180°.

IT 65543-67-1, 7-Dibenzo[de, h]quinolin-7-one
(and derivs.)

RN 65543-67-1 CAPLUS

CN 7H-Dibenzo[de,h]quinolin-7-one (CA INDEX NAME)



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L4              4 S L3
L5            177 S L3 FULL

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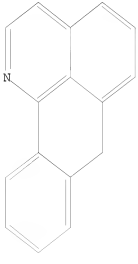

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L2           11 S L1
L3              STRUCTURE UPLOADED
L4            4 S L3
L5          177 S L3 FULL

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L6           99 S L5

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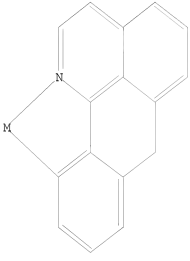


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